The American Artisan
And Hardware Record

58. No. 12. CHICAGO, SEPTEMBER, 18, 1909. $2.00 Per Year.

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All Kinds of

BOLTS, RIVETS, NUTS, WASHERS, CARRIAGE FORGINGS, ETC.

Send for 1909 Catalog "R." Prices on Application.

LUMBUS BOLT WORKS, Columbus, Ohio

Firm, Adhesive Power and Elasticity

e the two principal properties which go to ake up a good roofing cement.

"American Seal" Elastic Oil Roof Cement

ssesses these properties in a measure unequaled by any other ofing cement on the market. ¶ This cement adheres and will ck very firmly to the surface upon which it is applied. ¶ It very elastic and flexible and has unusual powers of contract- g and expanding under all conditions. ¶ When exposed to d, heat, rain or snow it will remain soft, pliant and weather oof. ¶ For bedding slate and tile roofs, repairing leaks around imneys, skylights and firewalls and for pointing up in general urpasses anything on the market. ¶ *Write for prices and ther information to-day.*

he WM. CONNORS PAINT MFG. COMPANY
Makers, TROY, N. Y.

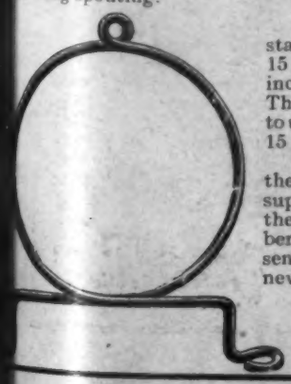
stern Agts.: Friedley-Voshardt Co. 701 Mather St., Chicago, Ill. Southwestern Agts.: Stockhoff Supply Co. 107 N. Main St., St. Louis, Mo.

Do you want enough samples of

IWAN PERFECTION WIRE CONDUCTOR PIPE HANGERS

for a small job of spout-hanging?

t is only by getting enough samples to complete a job that can realize the advantage of these hangers over other methods taching spouting.



For 20 cents, either silver or stamps, we will send you a box of 15 Perfection Hangers, either 2½ inch or 3 inch, by mail postpaid. This is considerable less than cost to us, as the postage alone is about 15 cents.

If you find that you can use them in your tinning work we can supply you direct, or will send you the addresses of the nearest jobbers handling them. Don't fail to send for the samples if you have never tried them.

IWAN BROTHERS, Mfrs.
South Bend, Ind.

"To discontinue an advertisement," says Ex-postmaster-General John Wanamaker, one of the largest advertisers in the world,—and, naturally enough, one of the most successful business men,—"is like taking down your sign. If you want to do business you must let the people know it. I would as soon think of doing business without clerks as without advertising."

"NEVER-BREAK"
TRADE MARK

Catalog Free

"NEVER-BREAK"

STEEL SPIDERS, GRIDDLES AND KETTLES

WILL NOT Scale Off like cheap enamel.
WILL NOT Scorch or Burn like light fry pans and skillets.
WILL NOT Absorb Grease or Flavors like cast iron.

THE AVERY STAMPING CO.
CLEVELAND, OHIO
Sole Manufacturers
"NEVER-BREAK" Goods

DEALERS! Here is a sample of our Farm Advertising

Handle ours and you will be on the right side. The farmer knows about them. We have a branch at Kansas City and can ship on short notice.

"THE DENNING" CORN CRIBS AND GRAIN BINS

Will store your whole crop at a nominal cost.

"THE DENNING" FENCE
Will take care of your poultry, hogs and stock.

"THE DENNING" LAWN FENCE
Will ornament your premises.
Ask your dealer for "The Denning" Take no substitute.

THE DENNING WIRE & FENCE CO. CEDAR RAPIDS, IOWA

Since 1895
when the first
MATCHLESS Spring Hinge
was placed on the market, not one set has required repairs from fault of hinges.

All **Matchless** Spring and Pivot Hinges, Floor and Jamb Hinges and Hardware Specialties are made up to the same high standard.

If your jobber cannot furnish them, write us.

LAWSON MFG. CO.
40 Dearborn St., Chicago, Ill.

THIS RANGE

will cook a turkey dinner, including the vegetables, the pudding and the pies—with one cent's worth of gas. You can surely sell that kind of a Range.

Here is a "cinch" for you.

A New Series of

Cinderella Gas Ranges

(Natural gas only)

Bodies—Cast Iron Entirely.

Ovens { Small size, 18"x19½"
Large size, 20"x21½"

Burners—5 top and 2 oven burners.
or 7 " " 2 " "

PLEASE REMEMBER

That nobody can possibly burn more than 2 cents worth of gas per hour in any range we make with 5 top and 2 oven burners, and then only with all valves wide open. At that you would be using twice as much gas as is ever necessary or proper—with our ranges.

AND THE PRICE!

Not a Cent Extra for the Extra 1½" in Oven.

Stove & Range Co. of Pittsburgh,

GOOD VALUE IN STOVES
PITTSBURGH, PA.

Why you can land Good Contracts for

KELSEY HEATING

REASON No. 1:—

THE KELSEY is so different in construction from, and has so many advantages over other heaters in greater weight and heating surfaces, utilization of all the heat and method of warming and distributing air, that any prospective buyer can be easily convinced of its general superiority and economy.

REASON No. 2:—

Because, due to the good work of KELSEY dealers and our advertising, the public generally are being educated that Kelsey Fresh Air Heating is in every way better and more healthful than steam or hot water radiator heating; and that the ideal method for large residences, churches and schools is by the Kelsey Battery and Mechanical Systems which afford better ventilation than the Indirect Systems, with less cost for fuel, management and repairs.

REASON No. 3:—

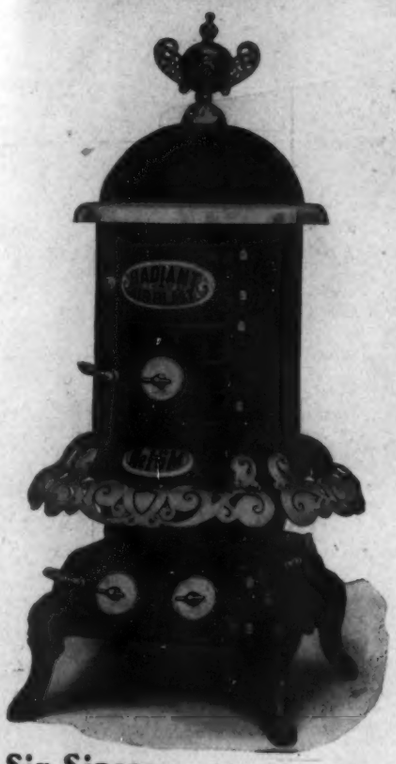
The abundance of evidence from prominent people who are users of the KELSEY; the 35,000 sold and the fact that many leading architects have also installed KELSEYS in their own residences, and are recommending and specifying, makes it easy for any live dealer to land the best contracts in competition with any other method or system of heating.

KELSEY HEATING COMPANY, - Syracuse, N. Y.

NEW YORK OFFICE:
156 Fifth Avenue

CHICAGO: Van Evera & Lewis Mfg. Co.
104-106 W. Lake St.

Radiant Home Specialties



THE NEW

Radiant Air Blast

"B" SERIES

For Soft Coal, Hard Coal, Coke and Wood

This stove has the improved Radiant Home Air Blast Fire Pot, (patent just granted). The improved projecting cells give each cell a greater fire radius, thus giving a quicker and stronger action, at the same time retaining all the features of the original pot. Like the original, this pot has a five year guarantee.

Best Oak Body Steel or All Cast Bodies; Grates of our own design draw center; Double Feed Doors, Solid or Mica; Base, tightly constructed, Shaker Door; Magazine, if desired, except in Nos. 10, 12, 20.

For hard coal order half height cells.

Six Sizes Nos. 10, 12, 14, 16, 18, 20

A HIGH-GRADE, LOW-PRICED STOVE

THE RADIANT HOME

Force Draft Air Blast

Radiant Home Air Blast Fire Pot
Guaranteed for Five Years.

BODIES

Steel or Cast.

DOORS

Mica or Solid.

MAGAZINE

In all except No. 21.

Patented Force Draft Ring
Radiant Home Air Blast Fire Pot
Cast Sections Finely Decorated
Base With Shaker Door
Grates, Special Draw Center

For soft coal, hard coal, coke and wood. **Order Half Height Cells for hard coal.**

Germer Stove Company

WESTERN B ANCH:
231-247 Newberry Ave., CHICAGO

ERIE, PENNSYLVANIA

THE FOSTER LINE

Made in Sizes
7 & 8-16, 8 & 9-18,
8 & 9-20 square
8 & 9-18 and 8 & 9-20
with reservoir

Foster's Flyer

Duplex Grates, Large Sliding Hearth Plates and Lift Out Ash Pan.

No Trouble to Clean.

Always Looks Neat.

All Sizes Have Cut-Tops, Cut Long Center

Another Original and Handsome Coal Cook Addition to

"THE FOSTER LINE"

Inspect it carefully, it is well worth your time. We have recently added **Foster's Agent, Foster's Opal, Foster's Regal, Foster's Crown, Foster's Delight and Foster's Tropic,** and will be pleased to mail you cuts and descriptive matter. We now present **Foster's Flyer** which we have just brought out and will soon offer **Foster's Acme** and **Foster's Victor.**

Watch for them. Secure the agency for the most complete, original and up-to-date line of new patterns on the market.

The Foster Stove Co.

Ironton, Ohio and Kansas City, Missouri

Makers of "THE FOSTER LINE"

The Best SELLING OAK STOVE ON THE MARKET

¶ The splendid appearance, variety of selling points and general all 'round excellence of

THE OAK RUBY

have made it the surest and best selling Oak stove ever made.

¶ It burns hard coal, soft coal or wood. The magazine is large. The nickel trimmings are beautiful—and there's lots of nickel.

¶ Note the cut of the fire-pot with which the

OAK RUBY

is fitted.

¶ This is a heavy slotted gas and smoke consuming fire-pot and only one of the valuable and distinctive features of this dandy heater.

You will do well to investigate this Stove at once. Inquiries are solicited.

SOUTH ERIE IRON WORKS, Mfrs., ERIE, PA.

Light Gray Iron Castings a Specialty.

BEAVER "The Stove of Stoves"

A ROYAL FLUSH

CHARM BEAVER

PRINCE BEAVER

BEAVER FURNACE

IMPERIAL BEAVER

BEAVER OAK

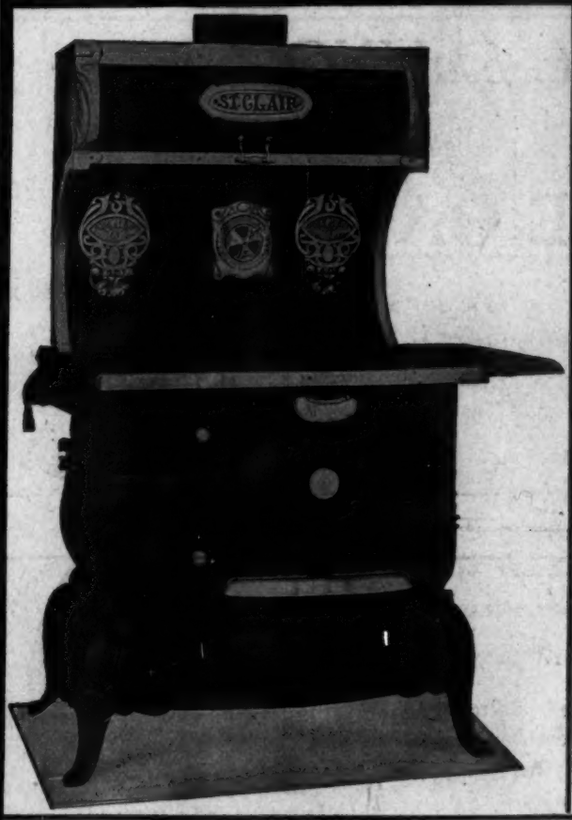
The Danville Stove & Mfg. Co.

Makers of "BEAVERS THE BEST"

Danville, Pa.

AGENCIES:

97 Beekman St., New York City
55 N. 2nd St., Philadelphia, Pa.
563 Mission St., San Francisco, Cal.
107 Third Ave., Pittsburgh, Pa.
453 N. Water St., Chicago, Ill.



PRINCESS ST. CLAIR

Modern 6-Hole Cast Range.

Plain, Smooth Finish.

Large and Substantial Fire Box.

Guaranteed Fire Back.

Nickeled Portable Steel Towel Rail.

Spring Balanced Oven Door.

Duplex Grate for Coal or Wood.

Steel or Cast High Closet.

Ovens 18x21x13 and 20x23x13½.

Tops, 7-in., 8-in. and 9-in.

Prompt shipments at all times.

Write for catalogue and prices.

BELLEVILLE STOVE & RANGE CO., Belleville, Ill.

"QUICK MEAL"

STEEL RANGES

ON BASE = = OR FEET

AS DESIRED

Careful attention to details and satisfactory service have made the "Quick Meal" steel ranges so popular that they are universally recommended as the leaders in beauty, quality and high class workmanship. They are known as "THE LONG LIFE KIND." The strength is placed where needed and not put in places merely to attract attention. The triple wall construction retains all the heat in the range, that is why they cook and bake so quickly and use so little fuel. "Quick Meal" ranges are made in different styles and many sizes and cannot help but satisfy the most exacting taste of the purchaser. They will prove quick sellers and good profit-makers for the dealer who handles them.

RINGEN STOVE CO.

DIV. OF AMERICAN STOVE CO.

ST. LOUIS, MO.

SAN FRANCISCO, CAL. Indiana St. Between 20th and 21st.

Safety, Cleanliness and Health are Points of

Vital Importance

in selling SCHOOL HOUSE STOVES. We make the only Single, Double, Triple or Quadruple

Ventilating Heater

(all combined in one pattern) for this purpose that answers all the requirements of the law. With Smoke Consumer, Hot Blast Attachment and Air Tight Joints. It is the Perfect Stove.

No Dust No Ashes No Puffing

Fire always under perfect control. Note the Combustion Chamber and Circulating Hot Air Drum add 30% Radiating Surface.

It will pay you to investigate now

THE A. T. NYE & SON CO.

MARIETTA, OHIO

DISTRIBUTORS

THE KELLEY-HOW-THOMSON CO. Duluth, Minn.

THE VAN CAMP HARDWARE & IRON CO. Indianapolis, Ind.

THE MINNESOTA STOVE CO., Shakopee, Minn.

WILL HOLD FIRE FOR 36 HOURS

Here Is Where The Draft Enters

The ONLY Perfect

Down-Draft Heater

Made

THIS METHOD OF TAKING THE DRAFT SECURES PERFECT COMBUSTION

Wilson Hot Blast Heaters

Workmanship and Material Superior to Any Other

Order Early

SEE OUR SALESMAN OR WRITE US FOR PRICES.

Address DIVISION No. 5.

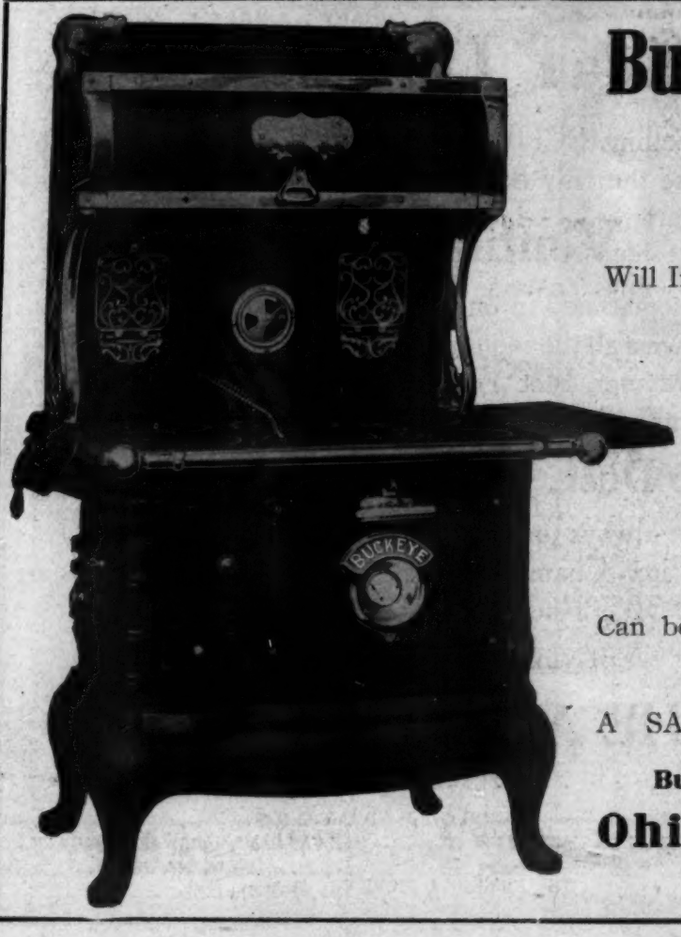
Order Often

Simmons Hardware Company

INCORPORATED

ST. LOUIS Manufacturers and Distributers NEW YORK

FOR THE CONVENIENCE OF OUR CUSTOMERS, *COMPLETE* Stocks carried at Toledo, Ohio; Minneapolis, Minn.; Sioux City, Iowa, and Wichita, Kans.,



Buckeye All Cast Range

Here is Your Opportunity
To Sell a BETTER Range
At a BETTER Profit

Will Increase Your Sales
Satisfy Your Customers
Give You Larger Profits
None Better Made

The Oven
Square
Roomy
Perfect Baker

Can be supplied with "L" Water Front.

Made Also With Reservoir

A SAMPLE WILL CONVINCE YOU

Builders of the Buckeye Line

Ohio Stove Company

Portsmouth, Ohio

"NEW PROCESS" OIL HEATERS

Made in Four Sizes
No. 65-L "NEW PROCESS" OIL HEATER

Save Time, Labor
and Money.

Ready at a Moment's Notice.

Convenient, Economical,
Efficient, Reliable.

Write for Booklet and Prices.

Standard Lighting Co. Div.

American Stove Co.

CLEVELAND, O.

HUB

Ranges
Parlor
Stoves

Furnaces
Steam & Hot
Water Heaters

Send for circulars and prices on the entire HUB line.

SMITH & ANTHONY CO.

52-54 UNION ST., BOSTON, MASS.

HERE'S A SNAP For Wide-Awake Range Dealers.

I am going to sell 1000 400-lb. six-hole steel ranges finished in Japan for not over

$15.00 Each

I'll sell the ranges too, so you'd better get in line and order now.

These Ranges formerly retailed at $60.00 each.

Send me a carload order and get my best cash discount, or I'll give dating to firms with satisfactory credit. What better proposition can you ask for, if you have a little capital, are sufficiently enterprising, and want to make money? Do You Know there is a big demand for the "Willard" Steel Ranges because they give perfect satisfaction, and don't cost too much? Then why don't you supply them?

WILLARD STEEL RANGES

are advertised in many leading publications, and the people know them and want them. Get my prices—It means profit, DOLLARS—to you. Every sale leads to another. I can sell you a better range than you can buy ANYWHERE for the money, one that cooks well and bakes evenly and perfectly, and will last a lifetime, with proper care. Tell me how many ranges you can sell annually and I will make you a very interesting proposition. Agents Wanted.

WM. G. WILLARD,
119 Willard Bldg., 320 Chestnut St.
ST. LOUIS, MO.

Advertising is BUSINESS BAIT

BANNER QUALITY

This is a range of unquestioned merit and individuality.

It is handsomely designed, made of the best materials, free from defects of any nature and carefully and honestly constructed—in fact a first-class range in all respects.

It will sell because it is just what your customers want, a range that can be depended upon at all times, a range that sells at a price which is right and a range that cooks and bakes to perfection.

Mr. Dealer—You should handle it, there's money in it for you. Write for further particulars.

Quality Stove & Range Co., Belleville, Ill.

SAVE HALF YOUR FUEL
BY USING THE

ROCHESTER RADIATOR

Satisfaction guaranteed or money refunded. Over 100,000 of them in use. Fits any Stove or Furnace.

We make the original and genuine Rochester Radiator
We do not sell to Catalogue Houses.

Price, from **$2.00** to **$12.00**

FOR HARD OR SOFT COAL, WOOD OR GAS.

We refer all inquiries to you from your town when you carry a stock of our Radiators.
We guarantee our Radiators not to interfere with or choke the draught. They are easily cleaned.
Write for descriptive Catalog and Prices.

ROCHESTER RADIATOR CO., 125 Furnace St., ROCHESTER, N. Y.

Boston, Mass., S. M. Howes Co.; Detroit, Mich., Standart Bros., Ltd.; St. Paul, Minn., Farwell, Ozmun, Kirk & Co.; Omaha, Neb., Wright & Wilhelmy Co.; Sioux City, Ia., Knapp & Spencer Co.; Kansas City, Mo., The Harbison & Modica Mfg. Co.; Kingston, N. Y., Canfield Supply Co.; Portland, Ore., F. W. Isherwood, Esq.; Hamilton, Ont., The D. Moore Co.

Munsell's Mica

EUGENE MUNSELL & CO.
NEW YORK AND CHICAGO

THE STANDARD FOR HIGH GRADE STOVES

New! New! New!

For 1909

A Stove For The Masses

THE

Loyal Gold Coin

Ventiduct Base Burner

¶ This Base Burner is entirely new for 1909 and is a combination of all the latest and best improvements known to the stove craft.

¶ Note its beauty—it is the handsomest stove ever placed on the market.

¶ And just as its massive and symmetrical proportions attract the eye, its ease and perfection of operation, its economy and its thoroughness of construction are bound to attract the attention of those who know and want a first-class heater—it's a sure trade-winner.

¶ *We would like to tell you something more about this stove and send you our new Catalog which is hot off the presses and a little different and more complete than any you ever saw.*

JUST DROP US A LINE TO-DAY

Chicago Stove Works
CHICAGO, ILLINOIS

A Good Furnace Business

can be built up in any community if the correct furnace is offered. One like the

MONCRIEF

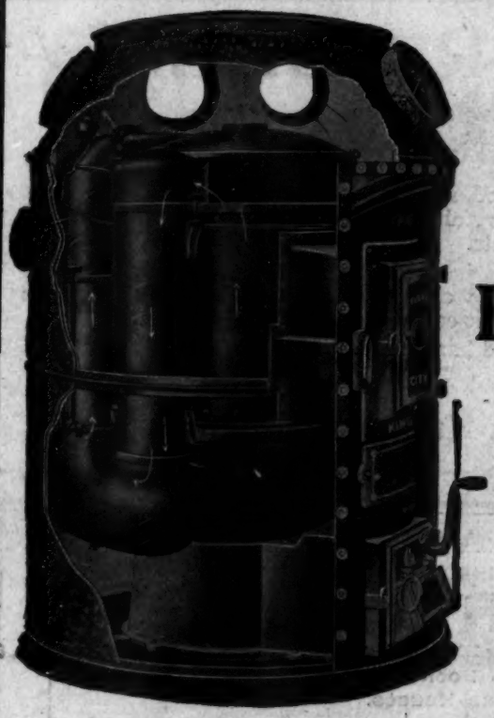
TOP RETURN FLUE WARM AIR FURNACE

guarantees a dealer all of the most particular contracts in his neighborhood.

Its Simplicity, Durability and Economy together with serviceability are prominent and meritorious features. *Write for our Catalog.*

HENRY & SCHEIBLE CO.
825-29 Long Ave., N.W., CLEVELAND, O.

J. C. KIMMEL, Western Sales Agent,
3314 East 15th St., Kansas City, Mo.



One of the many styles in which

Floral City Furnaces

are made

Write for our new catalog just out. We can interest you.

Monroe Foundry & Furnace Co.
Monroe, - Michigan

Perfect Light for the Country Home

DETROIT Combination Gas Machine

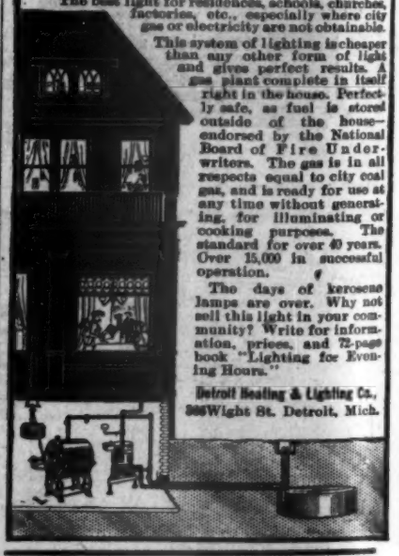
Here is a lighting system that not only means good profits for you but it will give the most satisfactory service to your customers.

The best light for residences, schools, churches, factories, etc., especially where city gas or electricity are not obtainable.

This system of lighting is cheaper than any other form of light and gives perfect results. A gas plant complete in itself right in the house. Perfectly safe, as fuel is stored outside of the house—endorsed by the National Board of Fire Underwriters. The gas is in all respects equal to city coal gas, and is ready for use at any time without generating, for illuminating or cooking purposes. The standard for over 40 years. Over 15,000 in successful operation.

The days of kerosene lamps are over. Why not sell this light in your community? Write for information, prices, and 72-page book "Lighting for Evening Hours."

Detroit Heating & Lighting Co.,
305 Wight St. Detroit, Mich.



100 Tinners' Patterns

Complete for **$1.00**

Sent Postpaid on Receipt of Price.

DANIEL STERN, 355 Dearborn Street, CHICAGO.

C. N. HOOPER, Dubuque, Ia.

Vitreous Enameling
TECHNOLOGIST

Designs, builds and starts new plants, improves quality and reduces the costs in those already established.

Boynton's Square-Pot Crusader Furnace.

MOST POWERFUL
MOST DURABLE
MOST ECONOMICAL
EASIEST TO MANAGE
EASIEST TO KEEP CLEAN AND
EASIEST TO SELL

BOYNTON SQUARE-POT FURNACES

You should have our Catalogue on file. A postal card brings it.

Boynton Furnace Co.

147-149 Lake Street, Chicago — 106 West 37th Street, New York
230 Pacific Avenue, Jersey City

FIRST and FOREMOST

¶ The principles of burning Gas and Soot in warm air furnaces have been perfected in the

WEIR Furnace

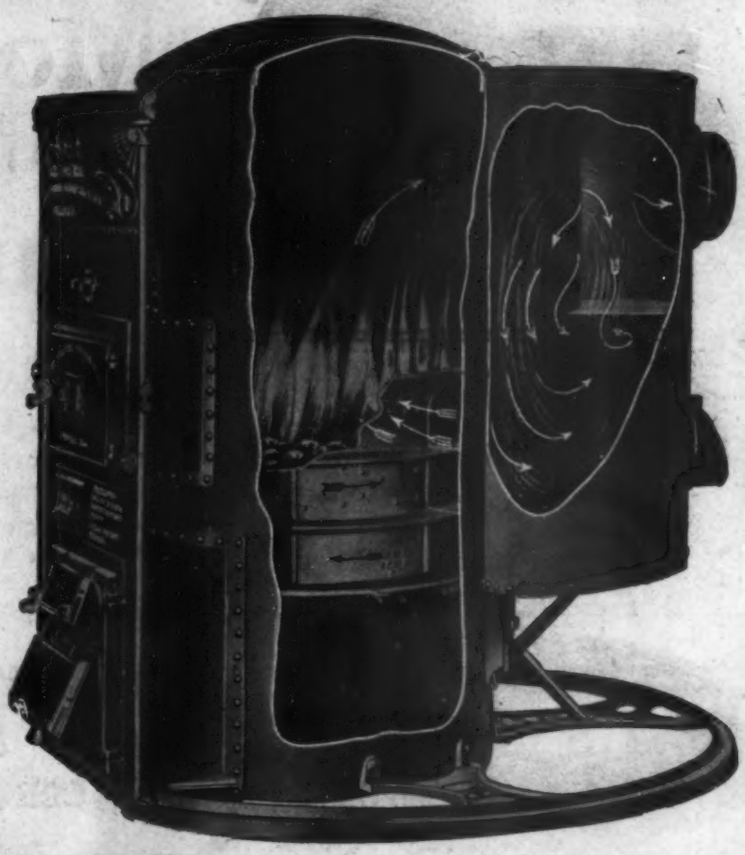
and in the WEIR only.

¶ This is the Father of all-steel furnaces, and though it has been constantly imitated for a third of a century it never has been equalled.

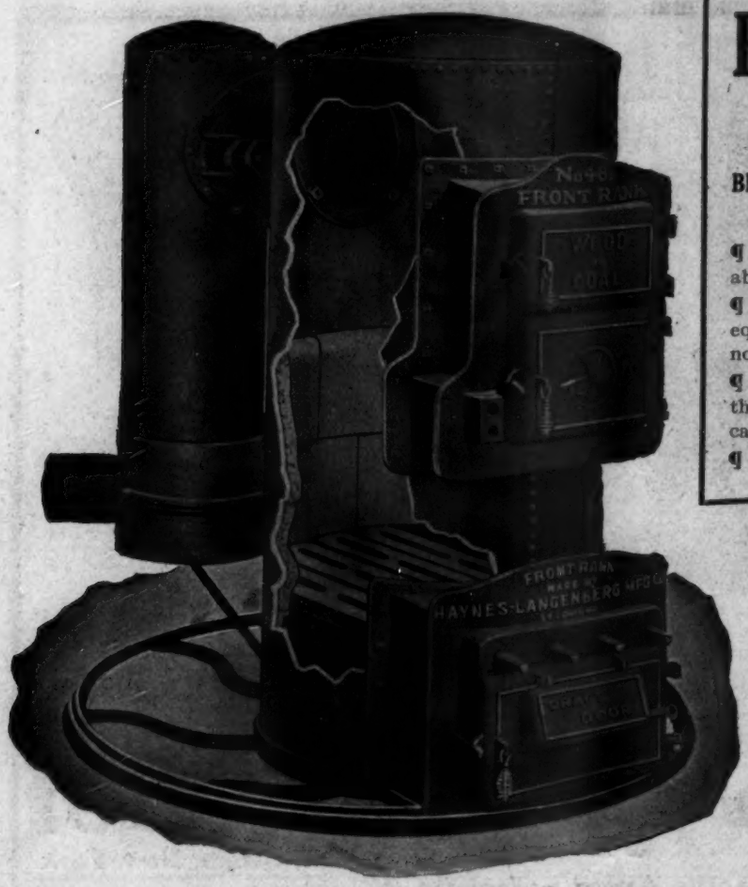
NO GAS SOOT DUST ODOR

¶ Note the large radiating surface and massive boiler-like construction as shown in the cut.

¶ Our handsome new catalog tells all about it, ask for a copy to-day.



The Meyer Furnace Co.
PEORIA, ILLINOIS



FRONT RANK
Steel Furnaces

BETTER THAN ANY OTHER FOR THE VERY BEST OF REASONS

¶ **First**—They are made entirely of steel—absolutely gas and dust tight.

¶ **Second**—They burn any kind of fuel with equal success, making them extremely economical.

¶ **Third**—Radiators are large—more than three times the capacity of the smoke pipe—cannot choke up with the dirtiest coal.

¶ **Fourth**—Combustion is positive and perfect.

¶ **Fifth**—No direct draft to warp out of place and let the heat escape up the chimney.

¶ Lots of other splendid features. Let us tell you why there are 12,000 **Front Ranks** in St. Louis alone.

¶ Let us tell you how you can make more money installing furnaces. A postal will do.

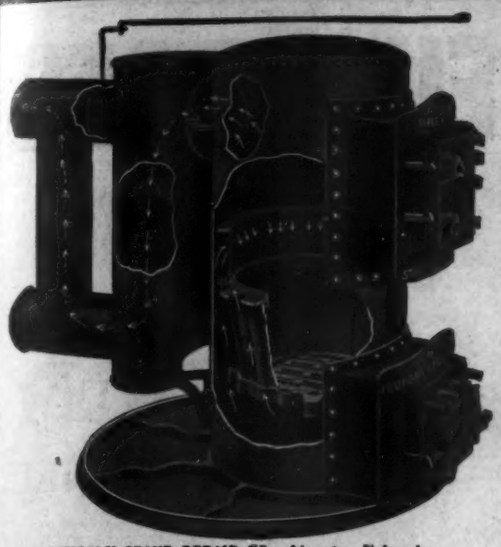
Haynes-Langenberg Mfg. Co.
4045-4057 Forest Park Blvd.
ST. LOUIS, MO.

Monarch
AIR-BLAST
Furnace

¶ The most practical SOFT COAL FURNACE known to the trade. The AIR-BLAST is in the form of a sectional perforated upper fire pot, through which heated air is fed upon the fire surface, completing and PERFECTING COMBUSTION.

Write for our Complete Catalog

Forest City Foundry & Mfg. Company
CLEVELAND, OHIO



LINCOLN STOVE REPAIR CO., Lincoln, Nebraska,
State Managers for Nebraska

ROWE CONSTRUCTION & HEATING CO., Watertown, S. D.
State Managers for South Dakota

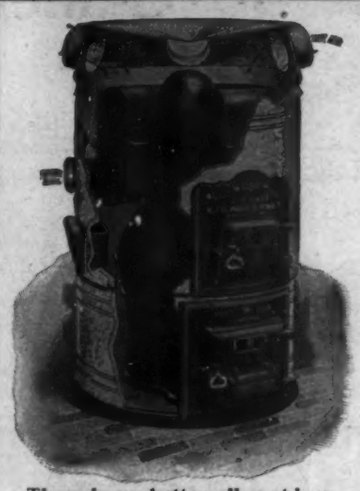
Do You Know Why People are buying Green's Base Heater Furnace?

Because it gives more heat with less fuel than is required to operate the average furnace.

The carbon and gases passing off unconsumed from soft coal mean just that much money lost up the chimney. By burning this carbon and converting it into heat, it not only does away with the smoke nuisance, but reduces the amount of fuel necessary to secure the desired heat, consequently a big saving in coal is effected. It is not the money paid for the furnace when installed which constitutes the cost, but the amount of fuel it consumes after it is in operation. The slotted fire bowl in this furnace admits the heated air and the oxygen ignites and burns the carbon.

Write for catalogue giving full description of this and other furnaces. Do this to-day.

Green Foundry & Furnace Works,
2nd and Vine Streets, DES MOINES, IOWA.



There is no better all cast iron furnace than the GILT EDGE ALL CAST. Ask Us Why.

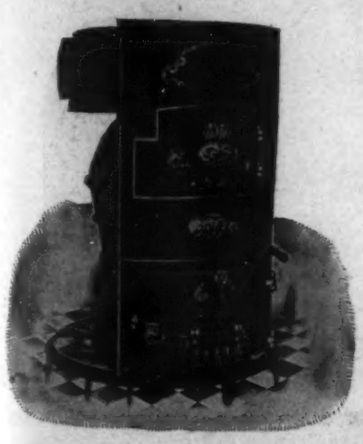
GILT-EDGE FURNACES

DEALERS like them because customers demand them. Customers demand them because they are backed by 30 years of excellent service.

They are made in sizes and styles to meet any requirements. Undeniably the most complete line of furnaces sold.

Write to-day for the GILT-EDGE Agency.

R. J. Schwab & Sons Co.
Clinton-Park and Reed Streets,
MILWAUKEE, WIS.



OUR NEW

De Haven All Cast Furnace

STRICTLY MODERN AND UP-TO-DATE IN EVERY RESPECT

All the latest features in modern furnace construction are embodied in the make-up of this furnace. Features:

Extra Heavy; Gas Tight; Burns all Grades of Hard Coal, Soft Coal and Wood; Simple and Economical to Operate; Top Return Flue Radiator; Large Radiating Surface; Rolling Bar Grate.

WRITE TODAY FOR CATALOG AND PRICES

Youngstown Furnace & Supply Company
Manufacturers of the Celebrated LION-APEX and BESSEMER Series of Furnaces
Niles, Ohio

Chicago Branch
218 East Lake Street

ROOD & McINTYRE
Kansas City, Mo., Southwestern Distributers

HERO FURNACES

ARE THE BEST FOR ANY CLIMATE OR ANY KIND OF FUEL

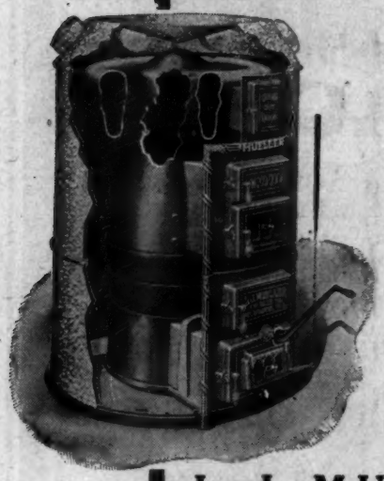
CHAS. SMITH COMPANY

101 E. Lake Street **CHICAGO, ILL.**

Smith's HOT WATER ATTACHMENTS can be used in any furnace.

—ASK FOR CATALOG—

Quit And You Will Be Gainer



This is only too true if you are engaged in installing cheap competitive furnaces, with which the market is flooded. Your only chance of securing a job is to beat your competitor's price—there's no money in this. But we advise you to

STAY AND BE A GAINER by securing the agency for the MUELLER line of furnaces—not competitive heaters, but a line of heaters that stands in a class of its own — the peer of all others.

Hundreds of MUELLER agents secure handsome preferences on every job they install, enabling them to install good jobs and at a good margin of profit. And they do the bulk of the work, too.

Now it is a matter of Profit or Loss to you — which shall it be? We are ready to prove that you can make more profit by selling exclusively the MUELLER than by selling any other line.

L. J. MUELLER FURNACE COMPANY

Established 1857

191 Reed Street : : : : : Milwaukee, Wis.

Clean and Tight Like a Boiler

We have erected a new factory in which we installed new 13 ton riveting machines, with which riveting is done by pressure rather than by hammering. This insures all the joints of

American Furnaces

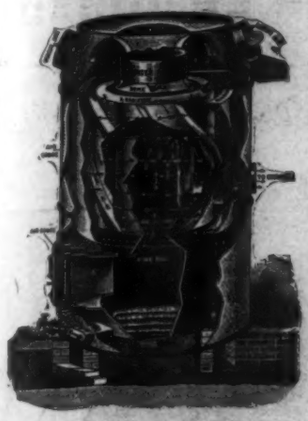
being absolutely tight

DEALERS: A Sample Furnace will be shipped to any responsible dealer in the United States and if after careful examination (we allow you 30 days) it does not prove entirely satisfactory, it can be returned at our expense.

If you are looking for something better, do not fail to investigate.

THE AMERICAN FURNACE CO.

1911-15 Pine Street, ST. LOUIS, MO



NEAL'S NEW IMPROVED GAS FURNACE

Because of its distinctive features the most powerful and economical Gas Furnace made.

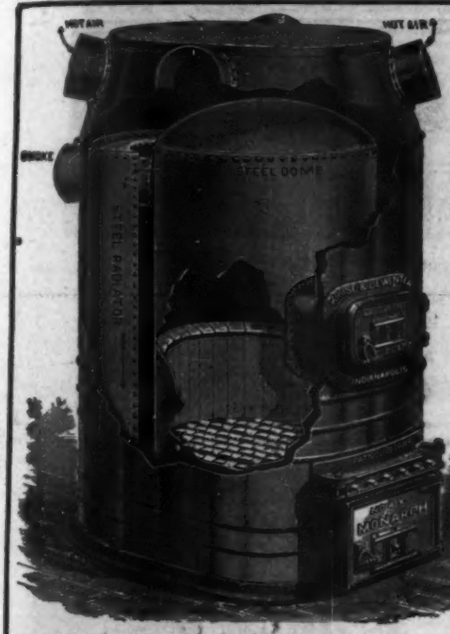
Neal's New Improved Gas Furnace will be found unequaled for heating dwellings, stores, churches and school-houses.

FEATURES:

Cast Iron Door with mica front and cooling partition, permitting the air to pass into the combustion chamber. Air travels over one-third more heating surface than in other furnaces. Oblique warm air flues between radiators. Double and Triple gas tight radiators. Large fire box and dome. No joints to leak gas. Enormous radiating surface.

These features and many others have made Neal's New Improved Gas Furnace a money-making proposition for any dealer. Write us to-day for catalog.

THE PICKETT HARDWARE CO., Ltd., Warren, Pa.



OPEN HEARTH ANNEALED STEEL FURNACE

—THE—

MONARCH X

Superior to any furnace of its kind on the market.

—FEATURES—

An extremely large radiating surface. The radiator has reversible flues, the heat and smoke passing through two openings on each side and down to the base of the radiator and then back again to the top before entering the smoke flue. Every particle of heat is utilized. Absolutely Gas-tight. Fitted with our patent revolving grate. Burns hard and soft coal, coke, wood and gas.

This furnace has a record of 25 years success behind it.

Write for Our Complete Catalog.

KRUSE & DEWENTER CO., Indianapolis, Ind.

Rait's All Cast Iron Furnace

A Simple, Durable and Powerful Heater.

This is a distinctly high grade all cast furnace. Absolutely gas, smoke and dust proof. Its thoroughness of construction and all around merit makes it the superior of any other in its class, and the genuine satisfaction it affords all users has made it a safe heater for any dealer to tie to.

Write us for description and prices.

Walter S. Rait & Co.
211-213 Lake Street
CHICAGO, ILL.

The

Michigan Safety Furnace Pipe Co.

Corner Brooklyn and Abbott Streets,

DETROIT, MICH.

The Stiffest and Best Machine-made Pipe on the Market.

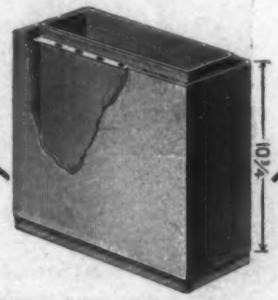
The only sectional Furnace Pipe made in which the inner walls form the cross walls.

No Wings to Pull Out
No Cleats to Bend

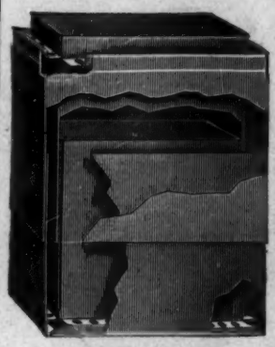
Our large factory insures prompt delivery.

Write for Catalog

Do not get us confused with other manufacturers.

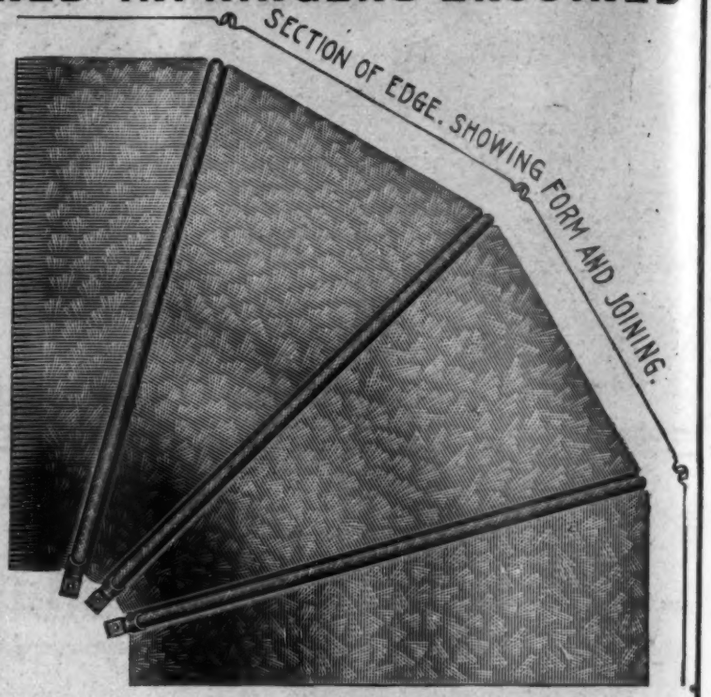


PATENTS SUSTAINED—INFRINGERS ENJOINED



Adjustable Joint.
Pat. March 31, 1903.

In the Circuit Court of the U. S. Northern District of Ohio, at Toledo, on June 29th, 1909, patents on the articles illustrated herewith, were sustained, and the Perfection Furnace Pipe Co. of Toledo, Ohio, were enjoined from further manufacturing the same.



Patented July 15, 1902.

Other manufacturers have been and now are infringing these patents and steps will be taken promptly to protect our rights.

These patents cover the most valuable improvements in Double Pipe and Adjustable Elbow construction and buyers will serve their best interests by placing their orders with us or with our authorized agents and distributors, and thus avoid any possible liability.

Our prices and goods are always right and we solicit your orders not only for the articles referred to but for all other Excelsior Heating Specialties including Furnaces, Registers, Stove Pipe, Stove Pipe Elbows and Furnace Supplies.

CATALOGS AND QUOTATION SHEETS ON APPLICATION.

THE EXCELSIOR STEEL FURNACE CO. **34-44 West Monroe St., Chicago, Ill.**

SAVES 75% OF THE FREIGHT

The Handy Nested Stove Pipe T Joint

These T joints nest together so closely that 90 per cent of room is saved in shipping them. This means fewer crates and a saving of 75 per cent in shipping. No damage is done in shipping. This is stronger and neater than a hand made riveted **T**.

It is always ready for use. Two bolts fasten it together and it fits perfectly.

This **T** joint is always neat, clean and salable. Made in Common, Polished Blue Steel and Planished Iron. Ten 12-inch joints are packed in a crate 7x8 inches and 14 inches long, weighing 15 pounds.

ASK YOUR JOBBER FOR PRICE AND SAMPLES.

KINNE MANUFACTURING CO., **Minneapolis, Minn.**

THE EXPERIENCED DEALER

cannot fail to appreciate the **increase** in his business and **profits** which would result from using the popular and well known

AJAX FURNACES

which stand for **the best there is** in the warm air heating line, and will satisfy the most exacting customer. Give them a trial.

Watch for appearance of our NEW **LOW DOWN AJAX** just added to our line. It is a WINNER.

CO-OPERATIVE FOUNDRY COMPANY, Rochester, N. Y.

Western Branch 505 South Clinton Steet, Chicago, Ill. Phone Harrison 6373

RED CROSS STOVES & RANGES

The Careful Sensible BUYER

is interested in finding out why the PERFECT WARM AIR FURNACES are universally accepted as the STANDARD of HEATING GOODS

RICHARDSON & BOYNTON COMPANY

Chicago New York Boston

FOUR BIG REASONS

—WHY—

IMPROVED HANDY FURNACE PIPE

is better than any other Furnace Pipe on the market.

It's the easiest thing in the world for a manufacturer to claim that his product is the best of its kind made, but it's another thing for him to give REASONS WHY that will carry any weight with consumers.

But we claim that HANDY Pipe is better and then give the reasons too.

In the first place we use the very best tin, both in weight and quality that can be procured.

That is a point that sho be carefully considered. The quality and weight of the tin used makes a big difference.

Secondly—By making this pipe with ONE TONGUE we give it BUT ONE POINT to enter.

We used to make HANDY Pipe with two tongues, but found that one tongue was a vast improvement, so we made the change.

Third—We make one end ½ inch wider than the other, so that it can practically be thrown together.

The rapidity with which a Furnace Pipe will go together is a great factor. If time can be saved on a job, money is saved. That's easy.

Fourth—Our slip is made 1½ inches long—the longest used on ANY double wall pipe.

A good long slip insures safety. Our pipe is absolutely safe when properly erected and guarantees perfect ventilation.

HANDY PIPE IS SO GOOD THAT WE INVITE YOUR INSPECTION. SAMPLES WILL BE SENT UPON REQUEST.

Just drop us a line to-day.

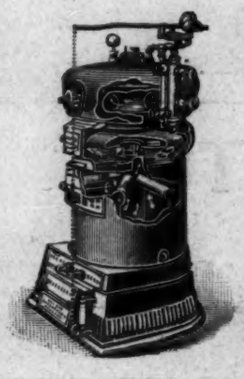
F. MEYER & BRO. CO.

PEORIA, ILL.

STEAM
10 Sizes
Capacities
350 to 1200
Sq. Ft.

Magee HEATERS

WATER
10 Sizes
Capacities
575 to 2000
Sq. Ft.



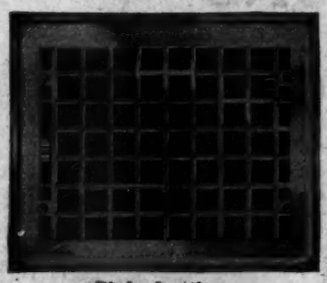
The Standard for Round Boilers

SEND FOR DESCRIPTIVE BOOKLET

Magee Furnace Co.

38 Union Street, Boston, Mass. 86 E. Lake Street, Chicago, Ill.

WROUGHT STEEL REGISTERS



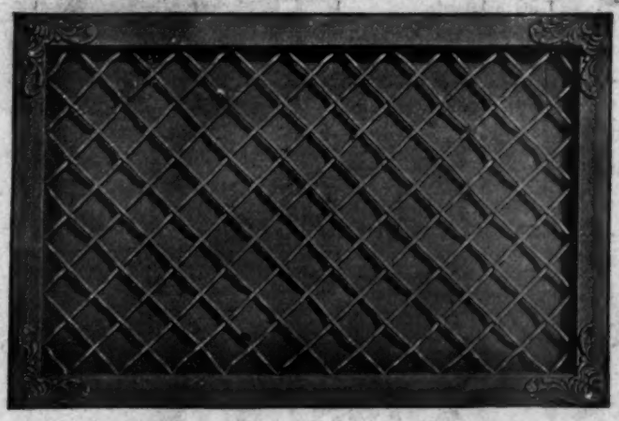
Plain Lattice.

The kind specified by the U. S. Government. Roller Bearing Movement—never sticks or catches. Valves are Self-locking.

The kind used for shallow flues. Can be placed EITHERWAY—upright or across.

The Reversible Wafer

FERROSTEEL COMPANY, Cleveland, O



WIRE GRILLES

Quality

counts in wire grilles as well as in cast iron or stamped steel goods.

We manufacture all three kinds.

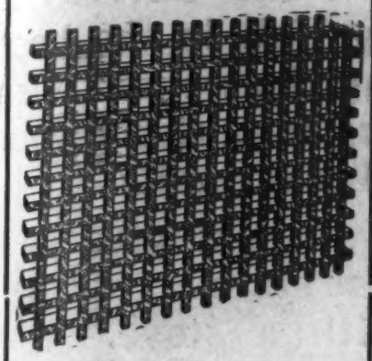
Send for prices.

Tuttle & Bailey Mfg. Company

New York Chicago Boston

THE PADGETT

HARD WOOD COLD AIR FACES AND VENTILATORS



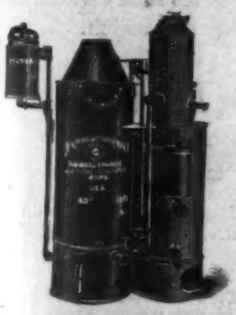
have become so popular that others are trying to imitate them. The genuine Padgett goods are made by a process discovered and known only by the owner and inventor. No imitation will give the service, have the durability and beauty of the Padgett ventilators. Imitations are cheaper first cost, but much dearer in the end. Who wants a cheaply constructed ventilator in his home that will ruin the appearance of the room in a short time? Ask for the Padgett Hard Wood Cold Air Face, manufactured by

THE WOODEN VENTILATOR COMPANY

No goods genuine without the Company's stamp, watch for it.

BRANCH WAREHOUSES:
155 East Lake St., - CHICAGO, Ill.
827-837 N. St., - LINCOLN, Neb.
1201-3-5 9th St., - KANSAS CITY, Mo.
420 Deaderick St., - NASHVILLE, Tenn.

MAIN OFFICE AND FACTORY:
EAST PALESTINE, - OHIO



HERE IT IS
The Ideal Epworth Acetylene Generator
It makes the Best, Purest, Safest and Cheapest Light known.

LIVE AGENTS WANTED.

Ideal Epworth Acetylene Co.
Johnstown, Pa. (or) Waterloo, Iowa

For Advanced Methods
Practical Installation
Combined Superiority
It Beats All Others
Just as Cook Beat Peary

Write For Catalog Explore

SYMONDS REGISTER CO.
ST. LOUIS, MO.

Get the Profit these Advertisements Will Bring You!

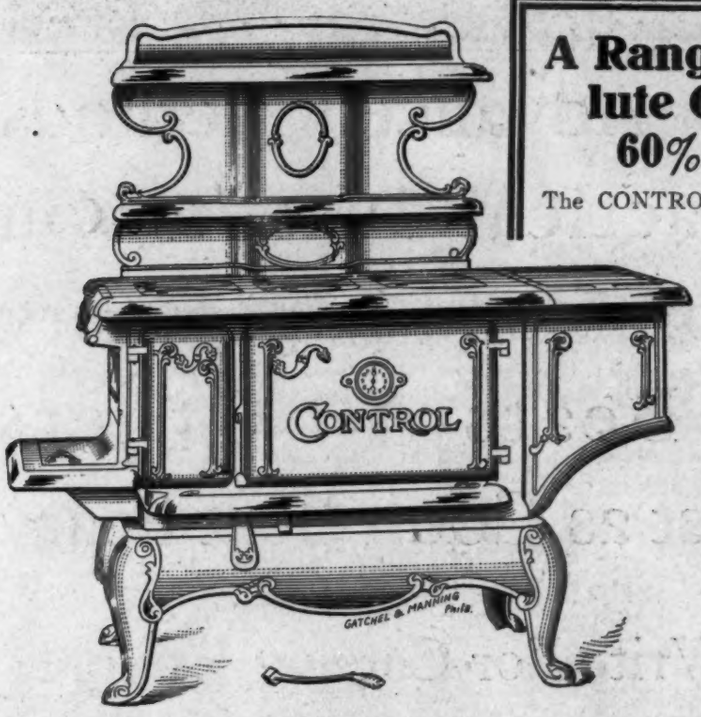
These half page advertisements of the CONTROL RANGE will run during the coming Fall in the best magazines in the country for reaching the women who cook the nation's food. They will bring inquiries to you; they will bring SALES to you---and liberal profits.

Give us your co-operation, and we will give you written authority to announce the most startling, trade-compelling guarantee ever given with a stove. You may give this guarantee at our risk. The profits it brings are yours.

Write us for full details.

Albany Foundry Co.

Van Renslear Island, Albany, N. Y.



A Range Sold on an Absolute Guarantee to Save 60% of Fuel Expense

The CONTROL Range actually effects this remarkable saving. The principle of construction that makes it possible is a new discovery. It can be had in no other stove. It is the most important improvement since stoves took the place of open fires. All front and side drafts are done away with. Air is admitted beneath the oven, and fed to the fire in a new way. The fire is controlled by a new device that regulates it as certainly as you could regulate your watch. The

CONTROL RANGE

burns coke or coal. Gives a hot coke fire in ten minutes. *Guaranteed to hold it without replenishing for 20 hours.* Gives steady, even heat for baking.

Ask your dealer about this new range. If he has it, he will allow you to try it free. If not, write us and we will send you a catalogue. Select your range and we will ship it prepaid and give you 90 days' free trial. Use as directed, and it will save 60 per cent of your fuel bill with coke, or 33 per cent with coal. If not return range at our expense. No sale unless we prove claims.

ALBANY FOUNDRY CO., Van Renslear Island, Albany, N. Y.

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

TERMS OF SUBSCRIPTION IN THE UNITED STATES AND ITS POSSESSIONS, (Invariably in advance): ONE YEAR, POSTAGE PAID, $2.00. IN FOREIGN COUNTRIES INCLUDING CANADA, ONE YEAR, POSTAGE PAID, $4.00. Address all Letters, Communications, and Remittances to

DANIEL STERN, PUBLISHER AND PROPRIETOR,
355 DEARBORN STREET, CHICAGO, ILL.

Entered as Second-Class Matter June 25, 1885, at the Post Office at Chicago, Illinois, under Act of March 3rd, 1879.

CHICAGO, SEPTEMBER, 18, 1909.

THE great lesson to be drawn from the settlement of the strike at McKees Rocks, Pa., is that the only way to adjust such troubles is by matter-of-fact business methods. Violence is madness. Refusal of a company to hear a fair statement of grievance is folly. The first thought which strikes the practical man on hearing that this bitter dispute is in the way of pacification is, "Why should it not have been done in the first place?" That would have saved almost two months' loss of work for the men, would have prevented the cessation of industries, with the accompanying financial losses for the company, and Pennsylvania would have been spared a distressing and disgraceful chapter in its history. Settling the strike now proves it could have been settled before. What an immeasurable advantage that would have been to all concerned.

BUILDING operations all over the country for the month of August show a heavy increase. During the month permits were taken out in fifty cities, according to official reports, for the construction of 15,551 buildings, involving a total estimated cost of $58,140,011 against 14,520 buildings, involving $43,322,101 for the corresponding month a year ago, an increase for the month closed of 1,030 buildings and $14,817,910, or 34 per cent. This is one of the most interesting reports from the standpoint of the remarkable increase which it shows that has been made public for a long time, and clearly illustrates the enormous activity prevailing in building in all sections of the country. Probably nothing like it has ever before been known. It is a better illustration of the fact that we are going into a new era of affairs in this country than anything that has come to light in a long time.

THE silver dollar gradually is going out of circulation. Today there are about 71,000,000 of them in circulation which is the smallest number in recent years. Three years ago there were about 82,000,000 passing through the various channels of trade. The reason for the unpopularity of the silver dollar, it is said at the Treasury Department, was that the government for the last two years has declined to pay the express charges on shipments of them to the Treasusy for exchange for notes of similar value. There were more than $80,000,000 in circulation when Congress refused to appropriate money for paying express charges. Immediately the movement of silver dollars decreased 75 per cent. Because of their size and weight they already have been discarded in the mercantile centers of the North and East, but they still retain favor in the West and Southwest and in all parts of the South.

New Process of Making Steel From Iron.

MARTIN KALLMAN, president of the Oriental Trust Company of Paris and London, has invented a new process of creating iron of all grades into fine steel, the process usually consuming about twelve hours. Quite recently a number of expert steelmakers visited the inventor's laboratory in London and witnessed several demonstrations of the process in which many different iron objects were "steeled."

Every possible precaution was taken to insure the absolute certainty of the results secured. The first test was with a plain bar of iron. This was coated with a peculiar chemical powder and placed in an air-tight retort in a furnace. The result was the entire bar was transformed into steel which the experts pronounced after testing it to be of fine quality. Models of several steel objects were worked up in ordinary iron and put through the process successfully. Some were made into solid steel, while on others only the outer surface was transformed into steel. An iron car wheel was given a steel rim and a heavy iron chain was turned into solid steel at one end which graduated into a thin coating over the iron at the other end.

There is said to have been no question of the steel being fixed onto the iron. It was clearly demonstrated that in every case the iron itself was transformed into steel.

"The peculiar thing about this process," said Mr. Kallman after the tests were finished, "is that low grade, cheap iron can by our method be transformed into a higher grade of steel than other better grades of iron. We don't know much about this feature yet, but our experiments are teaching us much. I estimate that we can take a piece of iron costing 2 cents a pound and put it through our process at a cost of 5 cents a pound and produce steel which at the lowest valuation today is worth $1 a pound. Other methods would cost from ten to twenty times as much. We obtain a great saving by our process in the manufacture of steel tools and shapes of various kinds. We can work them up in iron or cast the iron in molds and then turn it into the finest kind of steel. This means a saving in time and labor, in cost of working and in cost of converting into steel. As we have demonstrated, we can make such objects as a car wheel or an axle, where the flexibility of iron is required to withstand strains and shocks and steel surfaces are needed to resist wear at the points of contact, both easily and cheaply. I firmly believe that our process

will revolutionize the steel making business. It applies to all grades of steel for all kinds of work, and in every case insures greater economy than any other known method."

The experts present refused to be quoted on the subject until they had had time to study the matter fully. Each of them, however, congratulated Mr. Kallman on his success so far, and spoke enthusiastically of the new process, provided no flaws so far hidden were discovered. A British firm has made overtures to Mr. Kallman for the exclusive British rights to any one firm in one country. A company is being formed to exploit the process. When this is completed the rights to use the process will be leased out on a royalty.

New Customs Rules for Foreign Goods.

JAMES B. REYNOLDS, acting Secretary of the Treasury, has signed new customs regulations for the marking of imported merchandise so as to indicate the country of origin and to give the other information required by the new tariff act. The law required that all articles of foreign manufacture or production capable of being marked without injury should have in a conspicuous place in English letters the country of origin. The marking of cutlery, watches and clock dials and watch and clock movements and cases also were directed specifically in the tariff act.

After reviewing the provisions of the act relating to the marking of merchandise the new regulations provide:

Appraising officers will make a careful examination of all merchandise in their hands for appraisement in order to determine whether the same is marked in accordance with said provisions of law and if they find the same not so marked they will so report to the collector and the merchandise will be sent to the general stores and treated as unclaimed and not delivered therefrom unless for exportation upon due entry for that purpose being made, until properly marked by the importers under the supervision of the collector.

The word "Purchaser" as used in said paragraphs 152 and 154 is held to refer either to the purchaser shown on the consular invoice or to the ultimate consignee as shown in the declaration made upon entry. In the case of cutlery shipped to this country for sale on consignment as there is no purchaser, the same must be marked with the name of the manufacturer.

The law does not contemplate the marking of the coverings of crude substances, such as hides, logs, wool, crude rubber, etc., or on other substances of a moist or deliquescent nature like certain kinds of sugar in mats, etc., the marking of which would be impracticable. Articles usually imported in bulk when secured together for convenience in handling are not considered such packages as are required to be marked.

Merchandise entered for immediate transportation or in transit through the United States to a foreign country is not required to be marked under said provisions of law.

Articles manufactured in one country from materials produced in another should be marked with the name of the former as the country of origin. For example:

Packages containing beer manufactured in Germany or German malt and Austrian hops, should be marked "Germany."

Careless Packing and Its Results.

THE QUESTION of defective and careless packing by some exporters to Mexico has always been, and is yet, one that merits the careful attention of shippers, says Consul William W. Canada of Veracruz, Mex. It is declared to be one of the principal causes of many annoying and unpleasant differences that arise between the shipper and the buyer in Mexico. So much has already been said on this subject that it would seem reasonable to expect some results from these frequent reports and counsels, but an occasional visit to the wharves of Veracruz when vessels are discharging cargo will prove that very little attention has been given to the matter, says the consul.

A large lot of furniture from Wisconsin recently arrived at Veracruz for transshipment to the interior. These goods upon being landed presented a most deplorable appearance. There had not been even an attempt to pack them properly, for the greater part of the shipment consisted of chairs, knocked down, which had been wrapped in bundles with paper covering, and tied with a string or two. Naturally these packages fell apart, many pieces were broken, and all of them were more or less injured in one way or another. Before the buyer could possibly put his goods on sale he was obliged to go to the trouble and expense of overhauling the entire lot, with the result that unless the shipper would make good the loss, future trade would be lost to him.

Another lot of furniture, shipped by a firm in the South, consisted of wardrobes in sections, dressers, bookcases, etc. Some attempt at crating this furniture had been made, but the material of which the crates were constructed was so light and the work was so badly done that the goods were damaged to a considerable extent by scratches and abrasions, and before they would reach their ultimate destination they would suffer still more damage. This is enough to cause the importer a great deal of annoyance and make him indignant at the way in which his order has been shipped to him, not to mention the loss he sustains by this bad and careless packing of his goods. He will not forget it; neither will it further the interests of the shippers.

When the consignee sees the bad condition in which his goods arrive he will naturally look to the shippers for indemnification, and they in turn will claim that the steamship company was at fault. Then the railway company will be dragged into the controversy, each in turn disclaiming all responsibility because of bad packing. In nearly every instance the final result is that, after months of correspondence and delay, the consignee will suffer the loss, and his next order will be placed with another house, usually a foreign one, that will give the proper attention to insure safe transportation and that will treat any complaints of this nature with the respect and consideration due to a customer. There have been instances when complaints

of this nature from buyers have elicited answers from shippers that were couched in language actually rude, overbearing, and even insinuating bad faith on the part of the importer.

RANDOM NOTES AND SKETCHES.

BY SIDNEY ARNOLD.

I remember having read in the newspapers that the S. S. Kaiser Wilhelm der Grosse, which sailed from New York some weeks ago for Europe, met with an accident on that trip while in mid ocean, and lost one

A Bunch of Brobdingnagians on the Quarter Deck of the S.S. Kaiser Wilhelm der Grosse, en route to Europe.

of its propeller blades. The information contained in the dispatch which came by wireless was somewhat meager in character, and nothing further was stated save the intelligence that the big liner was making good progress on its voyage across the herring pond, minus a screw blade. When I read the dispatch I took

It's a safe bet that the story was a "Good One."

the matter philosophically, though I was inclined to the belief that something more serious had really occurred, for I happened to know four of the passengers whose combined weight would be almost sufficient to send the ship to Davey Jones' locker, and it came somewhat as a surprise to me that the accident to the Kaiser Wilhelm was of so trivial a nature. The four Brobdingnagians referred to are seen in the accompanying illustrations. There is Frank Baackes, of the American Steel & Wire Company, standing at the extreme left, while his son, Godfrey, is endeavoring to maintain the equilibrium of his voluminous form at the extreme right. My friend, Bobby (S. R.) Droescher, the smallest of the bunch, but a long chalk away from being a Lilliputian at that, and who can make more noise on one of "Pop" Bennett's "Hardware Specials" than a regiment, stands next to Godfrey Baackes, and might easily be taken from his pose for one of the ship's officers. I don't know whether Bobby can "box the compass" or not, but, believe me, he is 18 carat and the sirloin cut, as my old friend Nixy Cousens used to say, whether he is on an ocean liner at sea or traveling on the "Hardware Special" ashore to attend a convention. I'll bet that there was "something doing" all the time on the Kaiser Wilhelm der Grosse on that trip.

* * *

Lemuel Starkweather, who conducts a summer boarding house in North Caldwell, N. J., has solved the problem of keeping his lawn trimmed and entertaining the summer sojourners by perfecting a combination lawn mower and music box. The story of the invention came out when the owner took the machine to a blacksmith shop to have it sharpened for the third time in two weeks. Up to the time that the lawn mower was purchased the Starkweather lawn was unkempt, and the boarders suffered from ennui in the quiet evenings, as the only music the house afforded was from a parlor organ. Mr. Starkweather, who is ingenious, adapted the mechanism of a music box to the lawn mower, and the men boarders as well as the women, became eager to take turns at running the contrivance up and down the lawn in the cool of the evening. The neighbors soon learned of the harmonious lawn mower and wanted to borrow it. The demand became so great that Mr. Starkweather says he now charges a fee for its use. With the money thus derived he expects to purchase several new records that will bring the machine up to date in a musical way. It is very evident that Brother Starkweather believes, with Shakespeare, that:

> The man that hath no music in himself,
> Nor is not moved (*) with concord of sweet sounds,
> Is fit for treasons, strategems and spoils.
> (*) to work.

I have heard of no more ingenious artifice than this to make a son of toil out of a son of rest.

* * *

There may be lots of people who doubt that Doctor Cook reached the North Pole, but take it from me, the Symonds Register Company, 1102-1104 Madison street, St. Louis, Mo., are not a bit skeptical about it. Here is the evidence, and it will surely be given a prominent place in my "peerless collection" of poetic gems:

> Sure! Cook has found the Pole.
> In this we all concur.
> The Stars and Stripes he planted there
> With Symonds' Register.
>
> Now, Peary was the next;
> Swift to the Pole he got;
> But great was his surprise
> To find the thing red hot.
>
> "Dear me," said he, "what can this be?
> How does this all occur?
> Well, I'll be d——, Cook has beat me
> With Symonds' Register!"

News Siftings

It is reported that Millspaugh & Vincent will establish a plant at Reed City, Mich., to manufacture electric stoves and toasters.

The St. Louis Heater & Mfg. Co., St. Louis, Mo., has been incorporated with a capital stock of $50,000, to manufacture heaters and hardware specialties, by Albert Badlein, Charles A. Gutke, William N. Tivy, Thomas P. Tivy and George E. Tivy.

Fire which visited the plant of The S. Obermayer Co., Cincinnati, Ohio, on September 11, damaged their warehouse, though no damage was done to their various manufacturing departments, and there will be no interruption to the company's business, orders being filled with the usual promptness.

Smith & Anthony Co., 52-54 Union Street, Boston, Mass., manufacturers of "Hub" Ranges, Parlor Stoves, Furnace and Steam and Hot Water Heaters, have recently issued circulars and price-lists on these goods. The company's advertisement in this issue shows samples of their products.

The Prizer-Painter Stove & Heater Co., 343 Penn Street, Reading, Pa., advise that though a portion of their foundry was destroyed by fire on September 7, as previously reported in THE AMERICAN ARTISAN, their warehouses in which all castings and finished stock are stored were not damaged in the least. A few of the company's patterns were destroyed but they hope to be able to take care of the future wants of the trade with their usual promptness.

F. M. Borden & Bro., 118-122 N. Second Street, Philadelphia, Pa., are distributing an advertising card cut out in the form of a barrel, in the head of which is embedded one of the new Lincoln pennies, the nucleus for a "barrel full" of money. Selling the Borden line of ranges is suggested as the means by which this degree of opulence can be accomplished. The line includes Borden's "Opal," Borden's "Gem," the "Borden," the "Borden" steel range, Borden's "Best," "Special" and "Delight," and Borden's Wood Cook. F. M. Borden & Bro. request the trade to write for circulars and prices of these goods.

The Thomas White Stove Co., Quincy, Ill., are distributing a circular illustrating and describing White's "Leader" All Cast Range, for coal or wood. This range sells at a low price and a guarantee bond is furnished with it. It is of the very latest Cabinet style and Colonial design and is provided with a drop oven door. The sheet flue construction is especially adapted for any kind of coal, or wood, insuring the best possible results when baking or cooking. The spring cover and oven door are easily taken off without removing a single bolt. The drop end fire-box door which is very convenient for feeding wood, prevents ashes from falling on the floor. The direct damper rod does not come into contact with the fire and cannot burn off. This range can be furnished with water front large enough to give an abundance of hot water at all times, when connected with a pressure tank. The Thomas White Stove Co. state that they are making just as many "Leaders" every day as they possibly can, and if they keep on may run over 2,000 before the end of the season. When writing, kindly mention THE AMERICAN ARTISAN.

The Belleville Stove & Range Co., Belleville, Ill., are distributing a neat little booklet, illustrating and describing their line of "St. Clair" Malleable Steel Ranges. The company claim for these ranges that they are honest in every particular, and are made by skilled mechanics, of the best material, and that no other steel range will save more fuel than the "St. Clair." The body of the range is made of No. 18 gauge Planished steel, which will not rust, chip, peel or turn white when heated, nor warp, break or crack. The walls are double, and heavy asbestos mill-board is used as an interlining to prevent heat radiation. The oven is roomy, square, convenient of access, and is so arranged that the heat may be perfectly regulated. Other important features of this range are set forth in the booklet which the Belleville Stove & Range Co. are mailing to the trade. When writing, kindly mention THE AMERICAN ARTISAN.

THE "PENN OPAL" BASE-BURNER.

The Mt. Penn Stove Works, Reading, Pa., and 111-113 North Second St., Philadelphia, Pa., have put on the market the "Penn Opal" base-burner, which, they state, is proving to be a ready seller and a great profit maker. It is made in four sizes and is of handsome design. The manufacturers say that it embodies all the latest and improved features of base-burner construction, and that it is made of the best materials throughout. There is plenty of nickel to give it an ornamental appearance and to render it an attractive fixture for a room. They guarantee the "Penn Opal" to give the greatest measure of satisfaction. Dealers should write for the catalogue of the Mt. Penn Stove Works, describing in detail the "Penn" line. When writing, kindly mention THE AMERICAN ARTISAN.

THE "REGAL RED CROSS" RANGE.

A very attractive folder, printed in two colors, which is being distributed by the Co-operative Foundry Co., Rochester, N. Y., and 505 S. Clinton street, Chicago, describes and illustrates the company's "Regal Red Cross" Range, with gas oven and "active" high closet; square top, high shelf; with reservoir and "active" high closet, and with reservoir and high shelf. These four ranges are presented to the trade in entirely new dress, revised and reornamented. Besides possessing beauty of design they are said to be perfect in operation, most economical in the use of fuel, and to possess unusual facilities for cleanliness. The grates are Duplex or Dockash, as desired, and are of the company's patent draw-out construction. The oven plates (back and bottom) are of sheet steel, insuring quickest operation. The borders are of the removable nickel variety. The Co-operative Foundry Co. will be pleased to furnish further particulars upon request. When writing, kindly mention THE AMERICAN ARTISAN.

The Hardware Record.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 40 to 45 inclusive.

The Corbin Screw Corporation, New Britain, Conn., will construct an additional brick factory building, 50x380 feet.

The Howard Cutlery Co., St. Louis, Mo., has been incorporated with a capital stock of $2,000. The incorporators are, A. W. Douglas, A. H. Richardson and L. L. Haslam.

The Cutler Hardware Co., Waterloo, Iowa, are erecting a four-story fire-proof building for their wholesale business exclusively. When completed it will cost in the neighborhood of $40,000.

The annual convention of the Ohio Hardware Association will be held at Toledo, Ohio, on February 22, 23 and 24, 1910. The dates were decided upon at a meeting of the executive committee held in Toledo last week.

The Capital Lock-Nut and Washer Co., Columbus, Ohio, which for some time past has been in the hands of a receiver, has been ordered sold on October 16, efforts to effect a reorganization of the company having failed, it is said.

S. R. Droescher, 79 Warren Street, N. Y., importer and manufacturer of Razor Hones, Cutlery, Razor Strops and Hardware Specialties, has returned from an extensive trip to Europe, and is looking forward to a very heavy season's business.

The Napanoch Knife Co., Warwassing, N. Y., has been incorporated with a capital stock of $75,000 to manufacture knives, cutlery, etc., by William L. Hoornbeek and Irving E. Carman, Ellenville, N. Y., and William Carman, Napanoch, N. Y.

F. B. Clark, Mt. Pleasant, Mich., has purchased the Northern Hardware Co., Petoskey, Mich., successor to the Brackett Hardware Co. of that town. The company does a wholesale and retail hardware business and carries a line of mill supplies, brass goods, etc.

James P. Addis, a member of the hardware firm of Addis & Son, Galva, Ill., died recently at the age of 63 years. He was born in Warren County, N. J., and at the age of five years came with his parents to Illinois. He is survived by a wife, three sons and four daughters.

The Wire Goods Co., Worcester, Mass., are distributing a booklet on Display Suggestions, No. 2, the first booklet having been published in January, 1908. Most of the illustrations therein are reproductions of photographs sent the company by their customers. They propose to publish another edition later.

The Miller Lock Co., Department "A," Philadelphia, Pa., have put on the market a Tubular Night Latch, No. 3749, of Miller style and workmanship. It is strong, secure and durable, and is said to have all the features of an expensive latch but the price, which is low. The case is of iron, extra heavy. The bolt is brass plated, reversible, the tube being of brass and the knob of bronze. Two steel nickeled keys are supplied with each latch. The Miller Lock Co. request the trade to write for catalogue. When writing, kindly mention THE AMERICAN ARTISAN.

The Cooke Hardware Mfg. Co., Hartford, Conn., has been organized with a capital stock of $30,000. The officers of the company are: President and treasurer, Alfred C. Cooke; secretary, Alexander Ainott. In addition to the above named officers the directors include, Arthur H. Green and Walter F. Strong. The office of the company will be located at 902 Main Street, Hartford.

The Richards Mfg. Co., Aurora, Ill., are distributing a very neat appearing card, advertising the Richard's Door Hangers, which, they state are "as staple as cotton." The company manufacture door hangers for sliding doors of every description, size and weight, automatic fire door fixtures, overhead trolley-carrying systems, mounted grindstones, etc. All of these goods are widely and favorably known to the trade.

The Arcade Mfg. Co., Freeport, Ill., have issued a 220-page catalogue illustrating and describing their extensive line of hardware specialties. These include Coffee Mills and Grinders of various styles and sizes; Spice Cabinets; Salt Boxes; Medicine Cabinets; Knife Boxes; Paper Cutters; Mops; Spring Hinges; Door Braces; Screen Door Checks; Cork Pullers; Lemon Squeezers; Bottle Openers; Ice Picks; Dampers; Lid Lifters; Stove Pokers; Door Hangers; Drawer Pulls; House Numbers; Brackets, of various designs; Nut Crackers; Can Openers; Mincing Knives; Cast Claw Hammers; Screw Drivers; Soldering Sets; Wire Stretchers; Foot Scrapers; Barn Door Latches, etc. The catalogue is profusely illustrated and well printed.

BIG ATTENDANCE AUGURED AT THE ATLANTIC CITY CONVENTIONS.

Secretary F. D. Mitchell, of the American Hardware Manufacturers' Association, reports that the attendance at the association's convention with that of the National Hardware Association, to be held at the Marlborough-Blenheim Hotel, Atlantic City, N. J., on the 13th-15th proximo, will probably exceed that of any previous convention of either association. Upon receipt of advice from the Marlborough-Blenheim management that all of its rooms were engaged by delegates and visitors, arrangements were made with the Hotel Dennis, adjoining the Marlborough-Blenheim, and the Hotel Brighton, which is across the street from the same hotel, for the complete accommodation of the visitors.

The Eastern Canadian, New England, Central, Trunk Line and Southeastern Passenger Associations, embracing territory east of Chicago, St. Louis, and the Mississippi River, have granted a rate of 1 3-5 fares plus 25 cents on the certificate plan.

Secretary Mitchell is distributing a postal card to those who purpose attending the convention, for advice in connection with the identification badges displaying the name of the wearer and the name and address of the company or firm represented. These badges will be furnished at the convention to all delegates who will advise Secretary Mitchell prior to October 4 of their

intention of attending the convention. Earlier advice will be appreciated.

During recent years the attendance of members of the National Hardware Association has been generally upwards of 75 per cent of its entire membership, which percentage will probably be even greater this year, and the opportunity afforded of meeting the principals of these important jobbing houses should not be overlooked.

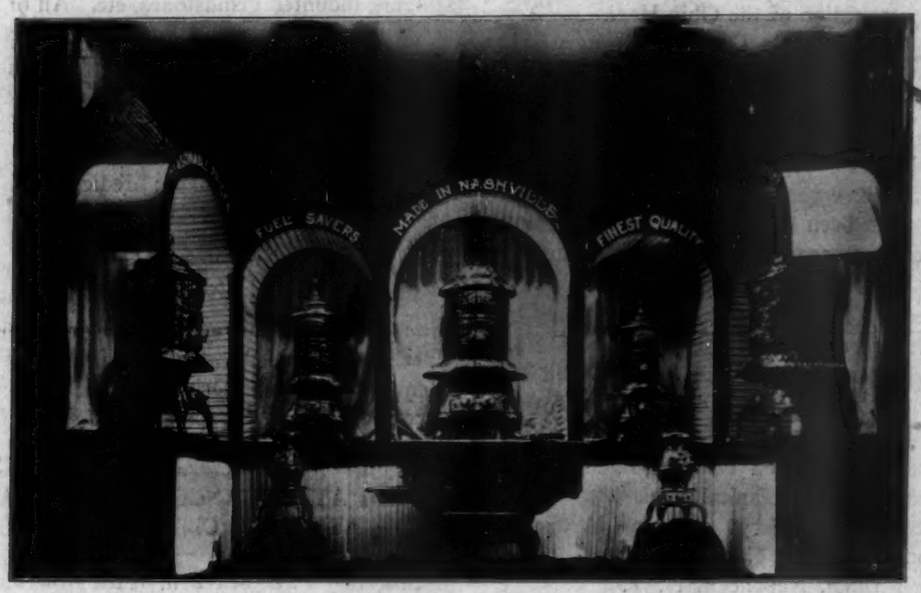
AN ATTRACTIVE DISPLAY OF HEATING STOVES.

The judges of THE AMERICAN ARTISAN'S 1909 Hardware Window Display Competition made Honorable Mention of the exhibit entered by Max J. Elliott, with the Gray & Dudley Hardware Co., Nashville, Tenn., and which is here shown. Mr. Elliott stated that this display of heaters proved very effective. His description of it is as follows:

"The display is twelve feet long and ten feet high. The base on which the five heaters are shown is 32 inches from the floor by 22 inches on the surface. The colors used are red and white. The front of the base is pleated with white bunting, on a frame made of one by three-inch strips. The border around the top edge is red cotton flannel, which overhangs the base. The floor is also red "puffed" cotton flannel. The cook stove shown in the foreground on the floor, also the two small heaters, are full nickel-plated, made up especially for use in window displays. These small heaters are on bases of empty boxes, over which the red material used on the floor is draped and puffed.

"The arches shown are two sections of a buggy rim, on which straight standards were nailed, to get the proper effect. These are pleated with white bunting, and are made in five sections. The depth of each arch is 22 inches from the back wall (the width of the base), and pleated all the way around. On the back is hung white cotton flannel in curtain effect. Each heater is shown distinctly and clearly by this arrangement.

"The small border signs shown on the arches are white on red card board, with green scrolling. The strip shown between each heater is the face of the strip composing the standards onto which the arches are made. These are neatly covered in red and are five inches in width. On each end the arch overhangs, this being next to the glass. If it had two sides, the view would be obstructed. As it is the entire window attracts at a glance. It required four hours' work to construct this window, with only $5.00 expense."



Honorably Mentioned by the Judges of THE AMERICAN ARTISAN'S 1909 Hardware Window Display Competition—Submitted by Max J. Elliott with the Gray & Dudley Hardware Co., Nashville, Tenn.

BIG SOUVENIR CATALOGUE OF THE STANLEY RULE & LEVEL CO.

The Stanley Rule & Level Co., New Britain, Conn., have issued a magnificent new catalogue of 130 pages, measuring 12x9 inches. It is one of the most elaborate and most artistic books of the kind that have been brought to our attention, and is gotten up more in the form of a souvenir than a working book. Two very beautiful views are shown of the company's main works and offices and of the wood working section of their big plant. The illustrations and typographical work, generally, typify the master printer's art. The catalogue is known as No. 101, and in publishing it it has been the purpose of The Stanley Rule & Level Co. to present to the users and sellers of their tools a book of specifications, information and prices of the extensive line of tools manufactured by them, and in which will be found a complete new set of illustrations and several new lines of goods. The Stanley Rule & Level Co. has long been engaged in the designing and manufacture of carpenters' tools, and especially boxwood rules, levels and planes. The company was organized in 1857, and they are thus enabled to bring into the manufacture and offer tools which embody the experience and study of half a century devoted to their design, both as regards the results which may be obtained with them and the best methods of manufacture. The designs of many of the special tools illustrated in the company's big catalogue originated in the suggestions of their customers, and they state that they are always

pleased to receive suggestions from tool users. Among the articles listed in the catalogue may be mentioned the following: Stanley Boxwood Rules; Boxwood Caliper and Ivory Rules; Boxwood Shrinkage, Extension and Miscellaneous Rules; Stanley and "Victor" Yellow and White Enamel "Zig Zag" Rules; Wood Plumbs and Levels, of various designs; Metallic Plumbs and Levels; Level Sights, Pitch Adjusters, Bit and Square, Pocket Levels; Try and Mitre Squares and "T" Bevels; Gauges of various descriptions; Stanley "Bailey" Adjustable Iron and Wood Planes; Stanley "Bed Rock" Adjustable Iron Planes; Adjustable Iron Block and Edge Planes; Block, Steel and Wood Planes; Belt Makers', Floor, Scrub and Furring Planes; Scraper Planes and Scrapers; Adjustable Circular Planes; Core Box, Chute Board and Router Planes; Rabbet Planes; Stanley Mitre Boxes; Concealed Ratchet Bit Braces; numerous types of Screw Drivers; Awls and Ice Picks; Spoke Shaves, and other articles too numerous to mention. When writing The Stanley Rule & Level Co., kindly mention THE AMERICAN ARTISAN.

A NEW "YANKEE" BREAST DRILL.

North Bros. Mfg. Company, Philadelphia, Pa., have put on the market a new "Yankee" Breast Drill, with right and left hand ratchet movement, No. 555 (shown in the accompanying illustration), double speed, and No. 550, single speed. The manufacturers state that

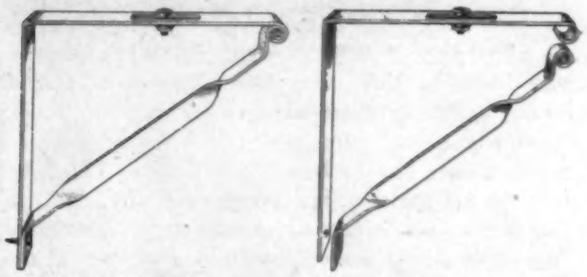
"Yankee" Breast Drill With Right and Left Hand Ratchet Movement.

this breast drill differs from all others, stands in a class by itself, and is not only unique, but embodies the capacity for a variety of work never done before with a tool of this kind. It is built mechanically along the lines of a tool rather than as a piece of hardware. It is preeminently a machine shop tool, but its superior advantages will be none the less appreciated in places outside of shops where a breast drill can be used. In many places for lighter work it will be even more convenient than the bit brace.

A peculiar feature of this new "Yankee" Breast Drill is found in the shifter on the cylinder between the small gears. The mere movement of this shifter in the various notches causes the tool to perform different movements. In the first notch nearest the chuck, it is an ordinary or plain breast drill. In the second notch it becomes a left hand ratchet useful in removing taps, but especially to loosen the drill if it should become jammed in a hole and cannot be moved forward or the crank revolved backward. In the third notch it becomes a right hand ratchet. In the fourth notch any movement of the crank, however short, or turned continuously in either direction, or a combination of the two, the drill in the chuck will always turn to the right and drill continuously, hence, no time is lost and double the work is done as compared with a single or a right hand ratchet. In the fifth notch the spindle is locked tight so that the drill chuck can be rapidly opened or closed. When writing North Brothers Manufacturing Company for further particulars and prices, kindly mention THE AMERICAN ARTISAN.

"SYRACUSE" STEEL SINK BRACKETS.

H. E. Hessler Co., 502 North Salina Street, Syracuse, N. Y., have put on the market the "Syracuse" Steel Sink Brackets, shown in the accompanying illustration. They are declared to be strong and durable, easiest to place, lightest in weight and neatest in appearance. They are made in two sizes, No. 1 and No. 2, plain, galvanized and nickel. No. 1 is 10½x14 inches, and takes a sink 14 to 18 inches, No. 2 being 12x16 inches and taking a sink 18 to 20 inches. The manufacturers state that these brackets are cheaper,



"Syracuse" Steel Sink Brackets, Manufactured by H. E. Hessler Co., 502 North Salina Street, Syracuse, N. Y.

neater and stronger than cast iron, and that people who know say that they are the best sink brackets made. The H. E. Hessler Co. will be pleased to quote prices and furnish descriptive matter upon application. A postal will bring it. When writing, kindly mention THE AMERICAN ARTISAN.

"KEEN KUTTER" TOOLS AT THE NORTH POLE.

The Simmons Hardware Co., St. Louis, Mo., call the attention of the trade to the fact that Commander Peary on his final and successful trip to the North Pole carried with him an assortment of "Keen Kutter" tools. The Arctic explorer while in St. Louis before starting on his Polar expedition, was one day, it is

said, speaking with some of his St. Louis friends regarding the primitive tools and implements of the Eskimos, so several of his admirers in the Simmons Hardware Co. asked to be allowed to present to these primitive people the latest products of skill and machinery. So it came about that Commander Peary took with him several kits of "Keen Kutter" tools to be presented as gifts to the Eskimos who, as is well-known, have such an affinity for tools and other articles of hardware as they have for candy. The advertisement of the Simmons Hardware Co. in this issue shows Commander Peary nailing the Stars and Stripes to the North Pole with a "Keen Kutter" hatchet.

AN ATTRACTIVE FLOAT OF STOVES, RANGES, ETC.

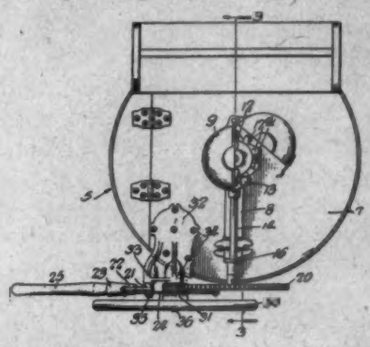
In the accompanying illustration is seen a float of W. A. Guenther & Sons, Owensboro, Ky., advertising their line of stoves, ranges, carpets, house furnishings, silverware, hardware, tools, bicycles, etc. It was used on September 6, to follow a circus parade and it attracted an unusual amount of attention. The float

Float of W. A. Guenther & Sons, Owensboro, Ky.

was drawn by three very fine Kentucky bred draft horses, which were dressed up especially for the occasion with signs, plumes, etc. The wagon displayed a representative line of house furnishings. The house furnishing department is a new one with W. A. Guenther & Sons and is carried in addition to their regular line of heavy and shelf hardware, sporting goods, mechanics' tools, builders' hardware, paints, oils and varnishes, wire and fencing wire, pumps, silver plated ware, cutlery, etc.

NEW OPERATING MECHANISM FOR WASHING MACHINES.

The accompanying illustration shows an operating mechanism for washing machines, upon which Hugo G. Braunlich, of Davenport, Iowa, was on August 31, of this year, granted a United States Patent, the same having been assigned to the H. F. Brammer Manufacturing Company of Davenport. The application for the patent was filed on May 24 of this year. The means for operating the washer comprises in combination an operating shaft capable of rotary reciprocating motion, a gear mounted on the operating shaft, a driving shaft arranged to be driven continuously in one direction, a spur gear on one end of the driving shaft which meshes alternately with the opposite sides of the gear on the operating shaft to translate the continuous rotary motion of the driving shaft into rotary reciprocating motion of the operating shaft, a gear wheel on the



Washing Machine Mechanism Recently Patented.

opposite end of the driving shaft, a rocking actuating lever, a pitman connecting the actuating lever with the gear wheel, and a fly-wheel mounted independently of the actuating lever, and provided on its hub with a gear pinion engaging the teeth of the gear wheel.

HOUSE FURNISHINGS IN VENEZUELA.

In answer to an inquiry, Consul Isaac A. Manning, of La Guaira, reports as follows concerning the possibility of building up trade in certain house furnishings in Venezuela:

During the past year small lots of stoves, ranges and refrigerators were imported through La Guaira, but this must not be taken as an illustration of the possibilities of a well-worked-up trade here. Stoves for use in Venezuela must be constructed chiefly for wood fuel. They should also be constructed so as to radiate as little heat as possible and to prevent oxidation, so peculiar to the Tropics.

A cheap pattern of enameled toilet is in use here, but statistics show no imports of patent toilets. A proper effort for the introduction of such articles by a commercial agent, who could get local plumbers interested, would bring absolute results.

There should be a market here for ice boxes and refrigerators, but with ice so expensive few householders keep ice in boxes or refrigerators. Hotels, bars, hospitals, etc., would surely use them if their value were brought to their attention. In these, as in all other articles, trade can only be built up by personal representatives. [A special printed list of the commercial houses in Venezuela, transmitted by Consul Manning, is on file in the Bureau of Manufactures, Washington, D. C. Copies may be obtained by addressing the consul.]

A NEW MARLIN HANGER.

The Marlin Firearms Co., New Haven, Conn., are distributing a very handsome hanger entitled "Quail Shooting in England." It depicts most effectively the intensely enjoyable moment when the shooter, with gun at shoulder, and eye just finding the bird along the top of the barrel, is increasing the pressure of his trigger finger with the certainty of a clean, quick kill. The hunter and bevy of quail rising over the knoll.

the grass, shrubs, field and sky have been worked out in exquisite detail, but the real interest centers in the thoroughbred dogs, which, in characteristic attitude, and with tense, strained muscles, are holding the point until they may be released by the shot. A copy of this hanger will be sent to any one who will send six cents in stamps to The Marlin Firearms Co., New Haven, Conn.

THE "SEAVEY" MITRE BOX.

Smith & Hemenway Co., 108-110 Duane Street, New York City, state that the "Seavey" Mitre Box is used by 50,000 satisfied carpenters. It weighs only two pounds and it can be folded and carried in the tool chest. It is used with many of the hand-saws and will cut in any angle desired. It does its work perfectly and easily and it is said to be the closest mitre box on the market. The company say that it should be carried by every progressive dealer as it will enable a mechanic to do better work and do it safely and quickly. It is declared to be an ideal, high-class and practical tool which does better work with less work. When writing Smith & Hemenway Co. for prices and particulars, kindly mention THE AMERICAN ARTISAN.

One of the features of Centennial Week in St. Louis, Mo., October 3-9, when the 100th anniversary of the incorporation of St. Louis will be celebrated, will be an interstate convention of retail merchants for an exchange of ideas on salesmanship, advertising, window and show case display, store arrangement, and other matters of vital interest to all retailers. The St. Louis Centennial Association has obtained reduced railroad rates for Centennial Week from practically all parts of the United States, including the Pacific Coast. A circular that the association is distributing says: "St. Louis is now the fourth city of the United States in point of population, and in point of many manufactures, the first city of the world."

Because a merchant is doing business in a small town or even at the country "crossroads" where his store is really the whole town or the biggest share of it, is no reason why he cannot be a merchant in every meaning of the word. He is of course handicapped in many ways, but his possibilities are big and the real merchant will under these conditions only "dig in harder" for business. To such a man success is just as sure as to the one doing business under the most favorable circumstances.

RETAIL HARDWARE DOINGS.

NEW FIRMS AND CORPORATIONS.

Richmond, Va.—The Evans Hardware Co. has been incorporated with a capital stock of $15,000.

Homestead, Okla.—The Shapley Hardware Co. will open a hardware store here in the near future.

Shiner, Tex.—The Shiner Hardware Co. has been incorporated with a capital stock of $10,000, by William Green, E. T. Merren and C. B. Welhausen.

Wheeling, W. Va.—Rice, Reppetto & Co. will open a new store at 1912 Market street, and deal in stoves.

Portland, Ore.—The Waldo Hardware Co. has been incorporated with a capital stock of $6,000, by J. Albert Hale, W. O. Cook and J. H. Askey.

Los Angeles, Cal.—The Adams, McKee Hardware Co. has been incorporated with a capital stock of $50,000.

Campbell, Mo.—The Rice and Petty Hardware Co. has been incorporated with a capital stock of $16,000, by N. N. Rice, H. V. Petty, of Campbell, and W. G. Petty of Kennett, Missouri.

Minneapolis, Kan.—A new hardware store will be opened here by the Kelley Hardware Co.

Little Rock, Ark.—The E. D. Bracy Hardware Co. has been incorporated with a capital stock of $25,000, by E. D. Bracy, J. B. Avera and S. M. Pearson.

BUSINESS CHANGES.

Charleston, Ark.—T. Randolph Gibson has purchased the interest of Wm. M. Choate in the hardware business.

Columbia, S. C.—D. S. Henderson, Jr., has taken over the interest of J. Wesley Stewart in the Stewart-Suydam Hardware Co.

Caroline, Wis.—E. J. Hoeft has removed his stock to New Rome.

Tipton, Ind.—The Tipton Hardware Co. has been succeeded by G. M. Meinerding.

Holland, Mich.—B. Breuker, formerly of the hardware firm of Mulder & Breuker, of Graafschap, has bought the E. J. Fairbanks business.

Terre Haute, Ind.—Pentecost & Craft Co. have purchased the Townley Hardware Co.'s stock.

Alta Vista, Ia.—W. H. Triplett has sold his interest in the Glattley & Triplett hardware business to John Lauck, Jr.

Traer, Ia.—A portion of the hardware stock of A. C. Ryan has been sold to J. N. Nelson of Northwood.

Wautoma, Wis.—R. C. Stuart has sold his hardware business to John R. Jones and it will be known under the firm name of J. R. Jones & Son.

Grant, Ia.—Low Schuler has purchased the hardware business of Redmond & Goziah.

MISCELLANEOUS.

Houston, Tex.—The moving of the hardware stock of Joseph Nussbaum to his new building on Sherman street has been completed.

Lyons, Tex.—Adolph Polansky is reported to have made an assignment for the benefit of his creditors.

Wynne, Ark.—The hardware store of Ray Hays was destroyed by fire.

Salina, Kan.—Cain & Son are erecting an addition to their hardware establishment.

Salina, Kan.—Hill & Son contemplate building a wareroom.

Indiana Harbor, Ind.—The Monarch Hardware Co. is moving into its new quarters on Michigan avenue.

Plainfield, Wis.—Fire on September 12 destroyed Storms' hardware store building.

Linesville, Pa.—Fire destroyed the hardware store of E. S. Monnin.

Bryan, Ohio.—The Bryan Hardware Co., which has been in business for over 20 years, handling wholesale and retail hardware and furniture, reports business good, with very encouraging prospects of a heavy fall's trade.

New Rochelle, N. Y.—A petition in bankruptcy is reported to have been filed against Abraham Levinson, hardware dealer, who has been doing business under the name of M. S. Levinson.

Sutherland, Neb.—The hardware store of Chas. B. Wood was damaged by fire.

Arlington, Md.—Fire destroyed the hardware store of Charles T. Cockey, Jr.

Almonte, Ont.—The hardware store of W. Kaufman was destroyed by fire.

Moundsville, W. Va.—The greater portion of J. J. Leach's hardware stock is to be sold out by creditors at auction, it is reported.

Humboldt, Neb.—J. T. Briggs is arranging to close out his hardware business here.

Advertising Department

Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.

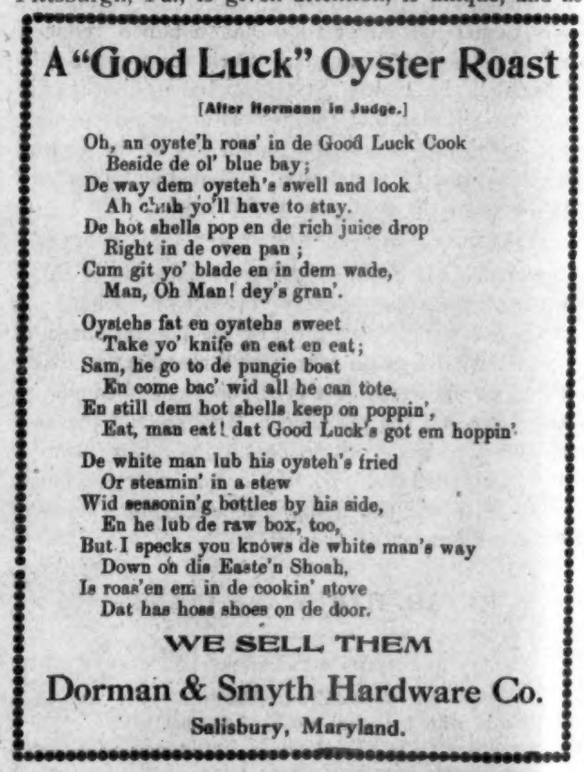
The advertisement of the Bowler-Healy Hardware Co., 172 Clark street, Chicago, shown herewith in reduced form, appeared in the *Chicago Examiner* of recent date, and occupied 11 inches of space, three columns wide. In general, the ad is a highly creditable one and is of such a character that it cannot fail to attract attention. The display feature is a strong one and the matter has been arranged symmetrically, with an abundance of white space throughout the ad. It is very unfortunate, however, that the Bowler-Healy Hardware Co. did not think it necessary to include in their address at the bottom the city, Chicago, in which they are located. The mere fact that the advertisement appears in a Chicago newspaper is not an absolute guarantee that the advertiser is located there, and in view of the fact that the *Chicago Examiner* circulates outside the city, the address in full should have been given. A suburbanite or farmer, for instance, who might notice the ad and who may not have heard, perhaps, of the existence of the Bowler-Healy Hardware Co., would almost be at a loss to know the company's location.

* * *

This two-column advertisement of the Atwater Hardware Co. of Leavenworth, Kans., of four inches depth, appeared in the *Leavenworth Times* and called attention to the gas ranges on sale by the company. The language, or, rather, dialect, here employed, is unique. For that reason, if for no other, the advertisement will catch and hold the attention of the casual reader of the newspaper, the display being sufficiently bold. While the negro dialect is not strictly according to book, it will pass; and it will serve its intended purpose of amusing while impressing the reader with the merits of the "Reliable" and "Jewel" ranges. While the top display line, from a typographical standpoint, could be extended and improved, the advertisement, as a whole, is clever.

* * *

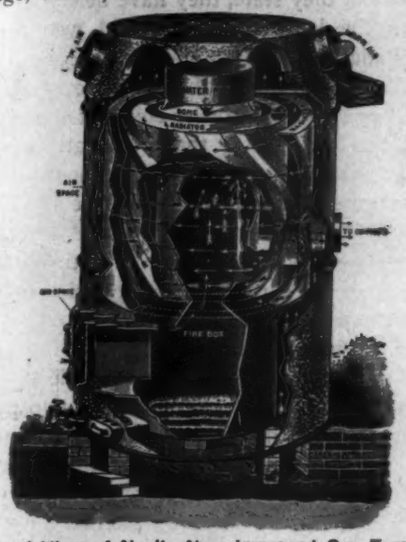
The advertisement of the Dorman & Smyth Hardware Co. of Salisbury, Md., in which the "Good Luck" cook stove of the Stove & Range Co. of Pittsburgh, Pittsburgh, Pa., is given attention, is unique, and no doubt produced good results. It appeared in a Salisbury daily, and occupied six inches of space of two-column width. While the "poetry" is not perfect as to rhythm, it is of such a style that after reading the first line or two one will be constrained to finish it.



Heating and Ventilating

NEAL'S NEW IMPROVED GAS FURNACE.

Neal's New Improved Gas Furnace, manufactured by The Pickett Hardware Co., Ltd., Warren, Pa., a sectional view of which is here presented, is constructed especially for burning natural gas, for heating dwellings, stores, churches and school houses. The



Sectional View of Neal's New Improved Gas Furnace, with the Casing Cut Away, Showing the Construction of the Furnace.

manufacturers say that it is the most economical heater made, that it affords perfect ventilation and is the most satisfactory furnace ever made for burning natural gas. It is claimed that with it a full volume of warm air can be obtained in less than five minutes. The Pickett Hardware Co., Ltd., request the trade to write for descriptive matter and prices. When writing, kindly mention THE AMERICAN ARTISAN.

THE F. D. KEES MFG. CO.'S "FUELSAVER."

"As necessary as the governor on an engine." This is what The F. D. Kees Mfg. Co., Box 828, Beatrice, Neb., say of their Automatic Furnace Regulator—the "Fuelsaver." This simple device opens and closes the drafts of any warm-air furnace. Automatically it maintains a uniform temperature throughout the house at all times, say the manufacturers, always opening or closing the drafts at exactly the right time. The company state that people who have used the "Fuelsaver" Furnace Regulator for the past two years say that it actually reduced their expense for coal at least one-fourth. The saving depends, of course, upon how carefully the furnace was operated before the machine was installed. A roaring fire can be built if desired, and left, with the assurance that there is not the slightest danger of its burning out too fast, according to The F. D. Kees Mfg. Co. The "Fuelsaver" can be attached to any warm-air furnace, old or new, and it will work equally well on any steel or cast furnace, providing the heater has been installed properly. The device is fastened securely to the joists above the furnace. A rod extends down through the casing, the lower end resting on the top of the furnace dome. The entire furnace expands and contracts as the heat in it rises and falls. This moves the rod up and down. The movement is not great, but 3/16 of an inch is all that is needed. The regulator itself is simply a series of levers which communicate this motion to a chain connected to the damper and draft. When the temperature in the house falls, the furnace naturally cools and contracts. This closes the check and opens the draft. As the fire increases and the furnace expands, the levers move in the opposite direction and check the fire. When writing the company for descriptive booklet, kindly mention THE AMERICAN ARTISAN.

A FURNACE THAT DOESN'T GO OUT NIGHTS.

The accompanying illustration shows a sectional view of the "Perfect" Gas Tight Furnace that has been put on the market by Richardson & Boynton Co., Chicago, New York and Boston. This furnace is designed to burn soft coal only and the manufacturers claim that it has 450 per cent more fire surface than many furnaces on the market. The feed door is 14 inches square. Richardson & Boynton Co. say that these furnaces "don't go out nights," and that they are performing most satisfactory service where-

"Perfect" Gas-Tight Furnace.

ever introduced. Descriptive literature will be furnished upon application. When writing, kindly mention THE AMERICAN ARTISAN.

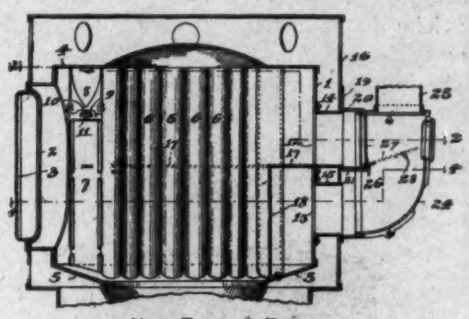
WIRE GRILLES FOR VENTILATING PURPOSES.

Quality counts in wire grilles as well as in cast iron or stamped steel goods. Tuttle & Bailey Manufacturing Company, New York, Chicago and Boston, are placing upon the market a line of wire grilles for ventilating purposes. They are of handsome design and of the celebrated T. and B. workmanship. The company have recently prepared a handsome catalogue, showing the effective styles in which these goods are being made. Tuttle & Bailey Manufacturing Company call attention to the fact that all goods shown in their catalogue are manufactured in their own factory, under their own exclusive patents. The goods they

now offer cover the requirements for all kinds of heating. Their warehouse stock is always approximately 500,000 pieces. All their goods are standard and the parts interchangeable. When writing for prices, kindly mention THE AMERICAN ARTISAN.

A RECENTLY PATENTED HEATING FURNACE.

The Robinson Furnace Company, 107 Lake street, Chicago, have been made the assignees of a United States Patent on a heating furnace, the invention of Edward H. Robinson, of the company. Mr. Robinson filed the application for the patent on April 10, 1908, and it was granted on August 31, of this year. In combination with the combustion chamber, having a feed opening and upper and lower smoke exits opposite the feed opening, are two rows of upright air tubes located within and on opposite sides of the combustion chamber and inwardly of the walls of the latter, the tubes of each row being in contact with each other and



New Type of Furnace.

each row extending from a point near one side of the feed opening to a point near one side of the smoke exits. A horizontal partition-plate divides the space between the air tubes and the wall of the combustion chamber into two horizontal flues communicating directly with the upper and lower smoke exits, respectively, the upper of the horizontal flues also opening directly into the space between the rows of tubes, the partition plate terminating at points near the front ends of the rows of tubes. There are closures for the forward ends of the horizontal flues, a vertical partition-plate between the rear ends of the rows of air tubes extending from the horizontal partition-plate to the bottom of the combustion chamber, and a damper movable to cut off the draft through either of the smoke exits, leaving the other open, whereby the products of combustion may be discharged directly from the interior of the combustion chamber through the upper smoke exit or may be caused to circulate through the horizontal flues and issue through the lower smoke exit, according to the position of the damper.

RAIT'S ALL CAST IRON FURNACE.

Rait's All Cast Iron Furnace, manufactured by Walter S. Rait & Co., 211-213 Lake street, Chicago, is credited with being a simple, durable and powerful heater, and a distinctly high-grade all-cast furnace, being absolutely gas, smoke and dust-proof. The manufacturers say that its thoroughness of construction and all-around merit make it the superior of any other in its class, and that the genuine satisfaction that it affords all users has made it a safe heater for any dealer to handle. The company will be pleased to supply descriptive literature and prices upon request. When writing, kindly mention THE AMERICAN ARTISAN.

THE MAGEE "EVERETT" FURNACE.

The Magee Furnace Co., 38 Union street, Boston, Mass., and 86 E. Lake street, Chicago, have put on the market the Magee "Everett" Furnace, in the design of which, they state, they have held with absolute fidelity to the long established and well-maintained Magee standards of design and construction. In quality of material and thoroughness of workmanship, the "Everett" is substantially the equal of the company's finest furnace. They say that by greatly simplifying the design, they have produced a model that fully meets the pressing demand for an efficient, reliable and economical furnace at a low price. Practically complete combustion is assured by the scientific proportions and shapes of the various parts. Ignition of all gases generated superheats the products of combustion at the point of entrance to the radiator. High efficiency and fuel economy are thus secured, while ease of control and convenience of operation are two prominent characteristics of this furnace. Special devices are used to insure gas, dust and smoke-tight joints, upon which expansion or contraction of the metal will have no effect. The manufacturers state that a clean house, free from collections of dust or the dinginess of leaking smoke, is among the many advantages possessed by users of the "Everett" furnace. The ample ash-pit with large ash-door makes the work of tending the furnace a matter of ease and cleanliness. The Magee Furnace Co. say that the "Everett," while comparatively low in price, is a furnace that may be installed with perfect assurance that it will render satisfactory service continuously under average conditions. The furnace is equipped with the Magee dock-ash grate. When writing for descriptive literature and prices, kindly mention THE AMERICAN ARTISAN.

FEATURES OF THE "IMPROVED HANDY" FURNACE PIPE.

F. Meyer & Bro. Co., Peoria, Ill., are calling the attention of the trade to their "Improved Handy" Furnace Pipe and to some of its special features. The pipe fits easily. One end is ⅝ inch larger than the other so that it can practically be thrown together. The slip is 1⅜ inches long—the longest used on any double wall pipe, according to the company. The lap of the "Improved Handy" pipe has only one tongue, so that the slip has but one point to enter. F. Meyer & Bro. Co. request the trade to write for free samples and catalogue. When writing, kindly mention THE AMERICAN ARTISAN.

Cleanliness and the general appearance of your store, both inside and outside, does much to determine the enthusiasm which will be shown toward your store. Clean windows; well scrubbed floors; neatly painted counters, shelving and tables; surplus stock cleaned away from under tables—all these things help cultivate in your customers the feeling of wanting to trade with you.

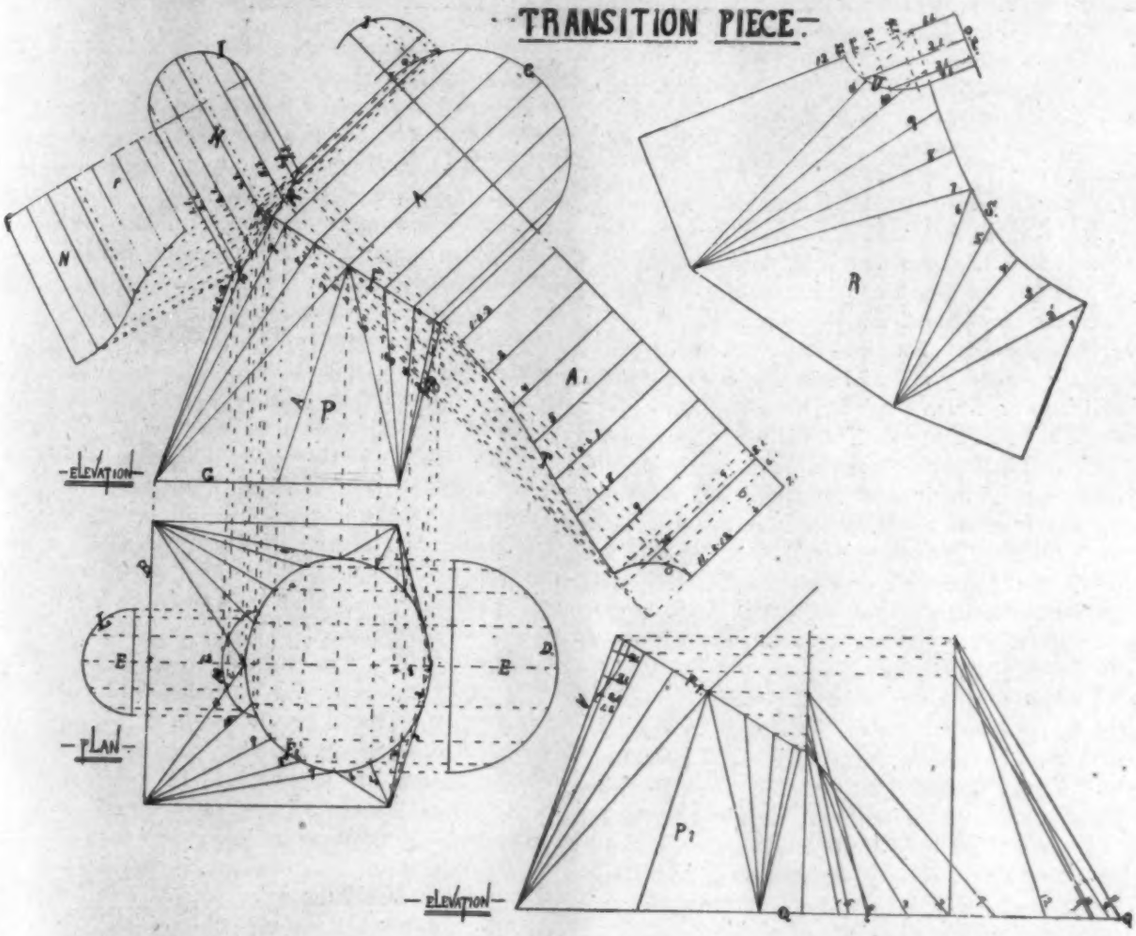
Tinshop

TRANSITION PIECE.

BY G. L. GRAY.

(To draw pattern for a square to round at an angle also intersecting a round pipe at an angle, with a round pipe of smaller diameter intersecting miter of transition piece at an angle.)

First draw base line *G*, and center lines *A, A,* at the required angles, and find miter line *F;* then draw half circle *C,* and space same into convenient number of equal parts and from these points draw lines to miter line *F*. Next draw square end *B* of plan the size required; then draw center line *E E,* and half circle *D* the same diameter as half circle *C,* also with the same number of spaces as circle *C*. Place T-square parallel with line *E E* and draw lines from all points in half circle *D,* indefinitely. Place T-square at right angles to line *E E;* draw dotted lines from all points on line *F,* intersecting lines of corresponding numbers in plan. Drawing a line through the intersecting points will give profile *F1;* and from these points on circle *F1,* draw lines to the four corners of square base *B;* then in elevation draw lines from corners on base line *G* intersecting points on miter line *F,* and number these lines same as shown. Next draw center line *H* for small pipe and half circle *I,* and space into a convenient number of equal parts; also draw one-quarter circle *J,* using same spaces as in half circle *I;* draw dotted lines from points on one-quarter circle intersecting half circle *C;* then drop dotted lines from half-circle *C* indefinitely. Next draw half-circle *L* in plan, and space same as half-circle *I;* draw dotted lines from points in half-circle *L* indefinitely; place T-square parallel with line *11* and *12* in elevation and draw indefinite dotted lines from points on line *F,* which were brought down from one-quarter circle *J*. Next draw solid lines from points in half circle *I* intersecting the dotted lines just drawn. Drawing a line through these points will give miter line *K*; drop dotted lines from points on miter line *K* intersecting dotted lines from half-circle *L*; drawing line through these intersecting points will give miter line *M* of plan. Make half pattern *N* and half pattern of round pipe *A1*. Next draw elevation *P1* the same as elevation *P* to take triangles from. Draw triangles as shown, taking the length of each numbered line in plan and set same on base line *Q*; draw dotted lines from points on line *F1* to give the height of triangles, and from the height thus obtained draw solid lines to corresponding points on base line giving the true length of lines for pattern *R*; number each line as shown and for spaces on line *S,* make distance same as on line *T* in pattern *A1*. For line *U* in pattern *R* make the distance *02* the same as *01* in pattern *A1*, and for height take the distance from line *V* in elevation *P1*.



No business head is too busy to pay proper attention to suggestions from the ranks. If only one good idea is found in a hundred, it generally pays.

METAL ROOFS RECEIVE SUPPORT IN HEARING.

T. P. Walsh, a prominent master sheet metal worker of San Antonio, Texas, and president of the local association in that city, was one of the principal speakers at a conference of San Antonio Sheet Metal Workers and the San Antonio City Council Committee on Fire and Fire Limits, held in that city on September 9.

Only one man appeared to speak for the substitute no-shingle ordinance prepared by citizens who oppose the present no-shingle ordinance of San Antonio. The one man who led the protest was W. N. Hagy. The Sheet Metal Workers represented, besides Mr. Walsh, were J. W. Ownby, Ed Dobrowolski and Joe Dean, Jr. A. L. Sharpe appeared to ask whether or not it would be possible for him to get permission to place shingles on a one-room addition to his home, which is already covered with shingles. Nearly all of the aldermen present spoke briefly, indicating clearly that they were opposed to any changes in the present no-shingle ordinance.

Mr. Walsh, speaking for the present no-shingle ordinance, said that the Sheet Metal Workers had intended to remain out of this argument until they saw that the lumber dealers were leading such a fight for shingle roofs that the City Council might welcome support. In answering arguments about the relative merits of shingles and tin as roofing material Mr. Walsh named several buildings on which he placed tin roofs twenty-one years ago and said those roofs are still in good condition. He said that twenty-one years ago nearly all the houses in San Antonio had tin roofs and that the change was brought about by the aggressiveness of the lumber dealers in seeking business, rather than by any proof of the greater worth of shingles. He said that the lumber dealers lose no opportunity to fight the Sheet Metal Workers by buying such material, when it must be furnished from other states. Mr. Walsh was called back from a general attack on lumber dealers by a question from Alderman Braden as to whether tin is cheaper than shingles. "The lumber men are basing their fight," said Alderman Braden, "on the allegation that shingles are cheaper and better than tin. We think they are not better than tin and we know they are dangerous, on account of spreading fire, but you can enlighten the committee as to the relative cost of tin and shingles."

TIN IS ALSO CHEAP.

"Taking ordinary cheap tin," said Mr. Walsh, "and ordinary cheap shingles, it will be found that the cheap tin is much cheaper and just as good. To begin with a tin roof requires a very slight pitch and that saves lumber, making quite a difference in the cost of the house. A tin roof ought to be painted, and if the shingles are not painted the difference between the cost of the two roofs would be the cost of the paint for the tin. But if the shingles are painted, and they ought to be painted, the tin roof is again much cheaper, because it requires a great deal of paint for a shingle roof."

In answer to questions about the relative heat of rooms covered by tin and shingles, Mr. Walsh said: "Tests of putting a thermometer under a shingle roof and under a tin roof under as near the same conditions as possible, have shown every time that the shingle roof is the warmer. I suppose those tests can be made again and I suggest that those who wish to know try them. There is a point in this connection, however, that I wish to make: The tin cools quickly after sundown, while the shingles hold the heat for the rest of the night. We can put paper under a tin roof and make it very cool."

Mr. Walsh introduced several publications and a number of illustrations sent out by tin and metal roofing companies, showing where fires had swept whole sections of cities and left the tin-roofed houses. They showed houses which tin roofs have protected from sun and rain for twenty years and furnished other arguments in favor of the metal roof. Among these was its rating by different fire insurance underwriters' organizations.

While the aldermen were busy with the publications and illustrations Alderman Braden remarked that he had learned that one of the reasons for the fight of the lumber dealers on the present ordinance is that they make $1.50 a square on shingle roofs, while they make 50 cents a square on metal roofs and have to sell in competition with other than lumber dealers when handling metal roofs. J. W. Ownby reiterated several of the points urged by Mr. Walsh and called attention to the roofs on Government buildings. He said the United States uses many tin roofs and no shingle roofs.

Ed Dobrowolski told of having been called by several persons to put tin roofs over shingle roofs, which leaked or were otherwise unsatisfactory.

W. N. Hagy was then given a hearing, which was much interrupted by questions from the Sheet Metal Workers. "There is very little tin in San Antonio now," said Mr. Hagy. "Letters of inquiry to the representative tin dealers of the United States will bring replies saying that the American tin market is very short this year. There is a premium on tin in this city today. Shipments are promised for November 1 or December 1. As a result of this, some are going to be unable to get tin for their roofs and will be forced to use cheap, unsightly and dangerous compositions which are supposed to be fireproof. And those who get tin are going to pay a premium on it."

The Sheet Metal Workers interrupted to declare that they would furnish tin in unlimited quantities and that they had not raised the price because of the present ordinance and would not raise the price.

The question of fighting fires in a building covered with a tin roof was brought up and Chief Wright assured the committee that he had never found it more difficult to fight fire in a building covered with a tin roof than in a building covered with shingles.

BIG PLANS OF THE NIAGARA MACHINE AND TOOL WORKS.

The Niagara Machine & Tool Works, Buffalo, N. Y., have just concluded the purchase of a plot of land of about seven acres adjoining the New York Central Belt Line in Buffalo, where they will erect a group of modern buildings to carry on the manufacture of their line of machinery for working sheet metals, including Presses, Squaring and Rotary

Shears, Tinsmiths' tools, etc., to better advantage than it could be done in their present plant. The company's business has had a steady development during the past thirty years, and it was only a question of time when they would have to remove to larger and more commodious quarters to take care of their expanding domestic and foreign trade.

METAL SHINGLES OF THE WHEELING CORRUGATING CO.

The Wheeling Corrugating Co., Wheeling, W. Va., are distributing a folder illustrating and describing their "Dixie," "Virginia," "Stella" and "Ohio Cluster" Metal Shingles. The "Dixie" and "Virginia" Shingles are made in three sizes: 7x10, 10x14, and 14x20 inches. The "Stella" Shingles are made in one size, 10x14 inches, and the "Ohio Cluster" in one size. 17½x26¼ inches. All shingles are packed in boxes containing a sufficient quantity to lay one square to the weather. They all have identical side locks and are suitable for any roof upon which wood shingles or slate can be used. The manufacturers state that they are fire-proof, weather-proof, sanitary, permanent, ornamental and inexpensive. The side-lock makes a secure and rigid fastening without the use of solder. General instructions are given in the folder which the Wheeling Corrugating Co. are distributing, for applying metal shingles, valley, ridge coping, hip shingles, etc. When writing the Wheeling Corrugating Co., kindly mention THE AMERICAN ARTISAN.

SILVER SOLDER.

One naturally associates high cost with the name of silver solder. In reality, says the *Brass World*, it is not as expensive as might be expected, and when results are to be taken into consideration, it is actually the cheapest for many kinds of work. The advantage of silver solder lies in the freedom with which it will melt and flow. While it is not as fusible as the soft solders composed of tin and lead, it is intermediate between them and the so-called "spelter solders" or those composed of copper and zinc. In addition to the low melting point of silver solder, it flows very readily and without the formation of the quantity of oxide that follows when spelter solder is used. Silver itself melts without any oxidation at all, and this fact explains the freedom with which silver solder flows. Another valuable feature of silver solder is the fact that it may be rolled into sheet or drawn into wire, and may, therefore, be employed for many classes of work in which spelter solder could not be used. Silver solder makes the strongest joint of any known solder, and as it melts so readily there is less danger of "burning" the joint. It can be made in a number of different grades of fusibility, cost, and color, and its use is advocated wherever possible. The results obtained by it cannot be equaled, nor even approached, by any other hard solder. It is equally applicable to steel, iron, copper, brass, German silver, sterling silver, and other similar alloys. It is widely used, of course, but should be employed even more extensively than it now is.

WHO CAN ANSWER THIS?

To THE AMERICAN ARTISAN:

Can you tell us whether there is a furnace manufactured by the name of the "New Era," and the maker's name if you happen to know?

THE FROSS BROTHERS CO.

Cleveland, Ohio, September 15, 1909.

NOTES AND QUERIES.

I. X. L. WINDMILL.

From E. B. Jones & Co., Thawville, Ill.

Can you tell us who manufacture the I. X. L. Windmill?

Ans.—Phelps & Bigelow Wind Mill Co., Kalamazoo, Mich.

STOVE PIPE COLLARS.

From James E. Faulkner, 901½ Elk St., Bellingham, Wash.

Will you kindly give me the names of manufacturers of stove pipe collars?

Ans.—Berger Brothers, Philadelphia, Pa.; J. L. Clark Mfg. Co., Rockford, Ill.; Republic Metalware Co., Buffalo, N. Y.; Roseland Can & Specialty Co., Rockford, Ill.; J. K. Schick, Fairbury, Ill.; Stuber & Kuck, Peoria, Ill.; Wheeling Corrugating Co., Wheeling, W. Va.

COMBINATION TWEEZER AND MAGNIFYING GLASS.

From J. E. Garrett, Sewanee, Tenn.

Can you give me the address of a firm manufacturing a Combination Tweezer and Magnifying Glass?

Ans.—A. Coulter Optical Co., Madison Street and Fifth Avenue, Chicago.

SHEET IRON WASHERS.

From C. DeWitt Wagner, Cedar Rapids, Iowa.

Kindly give me the address of firms making light sheet iron washers of special design.

Ans.—Henry Disston & Sons, Philadelphia, Pa.; Graham Nut Co., Pittsburgh, Pa.; Milton Mfg. Co., Milton, Pa.; Wrought Washer Mfg. Co., Milwaukee, Wis.; Hubbard & Company, Pittsburgh, Pa.; Garland Nut & Rivet Co., Pittsburgh, Pa.

HAND POWER ROLLS FOR CURVING CORRUGATED SHEETS.

From E. E. Craig & Co., Ennis, Tex.

Will you kindly give us the addresses of firms manufacturing hand power rolls for curving corrugated sheets?

Ans.—Bertsch & Co., Cambridge City, Ind.; Niagara Machine & Tool Works, Buffalo, N. Y.; J. M. Robinson Mfg. Co., Cincinnati, Ohio; H. Weiss & Co., New York City.

NOVELTY DEALERS.

From J. E. Garrett, Sewanee, Tenn.

Please give me the addresses of some of the Novelty dealers in Chicago?

Ans.—The C. E. Conover Co., 188 Madison Street; Lord & Taylor, 77 Monroe Street; N. Shure Company, 220-222 East Madison Street, and Worms & Loeb, 197 Adams Street.

SHEET METAL SIGNS.

From Waterloo Mfg. Co., Waterloo, Iowa.

Can you give us the addresses of firms manufacturing sheet metal signs?

Ans.—The Zero Marx Sign Works, 160-162 E.

Superior St., Chicago; Art Metal Sign Works, 162 Superior St., Chicago; Chicago Metal Sign Co., 56-58 W. Van Buren St., Chicago; Jos. G. Whiteford & Co., 23-27 N. Jefferson St., Chicago.

ORNAMENTAL BRASS BRACKETS.

From A. H. Barth, Larmar, Mo.

Will you kindly give me the names of firms manufacturing ornamental brass brackets?

Ans.—Western Brass Mfg. Works, 21st St. and Campbell Ave., Chicago; Turner Brass Works, Sycamore, Ill.; Quincy Brass Works, 147 Clinton St., Chicago, and the Imperial Brass Mfg. Co., 245-247 S. Jefferson St., Chicago.

MACHINES FOR MAKING STOVE PIPE HOLDERS.

From James E. Faulkner, 901½ Elk St., Bellingham, Wash.

Will you kindly inform me where I can get machines for making stove pipe holders?

Ans.—Bertsch & Company, Cambridge City, Ind.; Niagara Machine & Tool Works, Buffalo, N. Y.; J. M. Robinson Mfg. Co., Cincinnati, Ohio; Peck, Stow & Wilcox Co., Cleveland, Ohio; Nappanee Iron Works, Nappanee, Ind.

DESIGNS FOR ADVERTISING PURPOSES.

From Waterloo Mfg. Co., Waterloo, Iowa.

Can you give us the addresses of firms making designs for advertising purposes?

Ans.—The Zero Marx Sign Works, 160-162 E. Superior St., Chicago; Chicago Metal Sign Co., 56-58 W. Van Buren St., Chicago; Jos. G. Whiteford & Co., 23-27 N. Jefferson St., Chicago.

CASH REGISTERS.

From G. E. Roberts, Box 20, Clinton, Wis.

Will you kindly give me the addresses of manufacturers of cash registers?

Ans.—National Cash Register Co., Dayton, Ohio; The Egry Autographic Register Co., Dayton, Ohio.

ITEMS.

Nathan A. Taylor of the N. & G. Taylor Co., Philadelphia, Pa., manufacturers of tin plate, who has been abroad spending the summer with his family at St. Moritz, Switzerland, took passage by the S. S. Caronia for home on Sept. 14.

The Leavenworth Cornice Works, Leavenworth, Kans., have secured a contract from the United States Government for sheet metal work on the Government buildings now under construction at Fort Russel, Wyo. Over 70 buildings are being erected at that point.

The Higrade Slate Co., Granville, N. Y., has been incorporated with a capital stock of $25,000, to mine and manufacture roofing slate. The incorporators are: Charles W. Barker, and D. Clarence Sherman, Poultney, Vt.; Daniel Flarity and Martin H. Lyon, Middle Granville.

The Stark Rolling Milling Co., Canton, Ohio, manufacturers of "Toncan" Metal Sheets, are distributing a very handsome and substantial leather card case, the inside of which bears the company's imprint. It is one of the most useful little souvenirs that have been brought to our attention.

Keuffel & Esser Co., Hoboken, N. J., have issued a circular devoted to blue print papers. The company state that it has always been their endeavor to maintain the high quality of their blue print papers and improve their formulas for coating same, and to produce papers best adapted for their purpose. Their papers, they state, may be depended upon for the work for which they recommend them.

S. E. Harpel, secretary of the Master Sheet Metal Workers' Association of Wilmington, Del., is now identified with The New Amstel Press, 1025 Market Street, Wilmington, as sales manager. The recent issue of the New Amstel Magazine, contains a poem by Mr. Harpel, in the form of an Invocation, and is a poetical effort of no mean order. While Mr. Harpel has disposed of all his interests in the sheet metal business he is still secretary of the Wilmington Local.

The factory of the Kelley Canning Company, Waverly, Iowa, was recently destroyed by fire. One of the pipes leading to the capping machine caught fire, resulting in the death of George McRoberts, an employe, and causing a panic among the other employes of the company. The fire spread so rapidly through the frame building that it could not be placed under control and the entire structure was razed to the ground. The report published in the daily press that the fire resulted from the explosion of a gasolene tank was incorrect.

CAN YOU BEAT THIS?

To THE AMERICAN ARTISAN:

To be without THE AMERICAN ARTISAN is like being without bread at one's meals. Please find enclosed check for $2.00, subscription to your valuable paper.

H. W. KUEHNER,
Frank Geele Hardware Co.

Sheboygan, Wis., September 8, 1909.

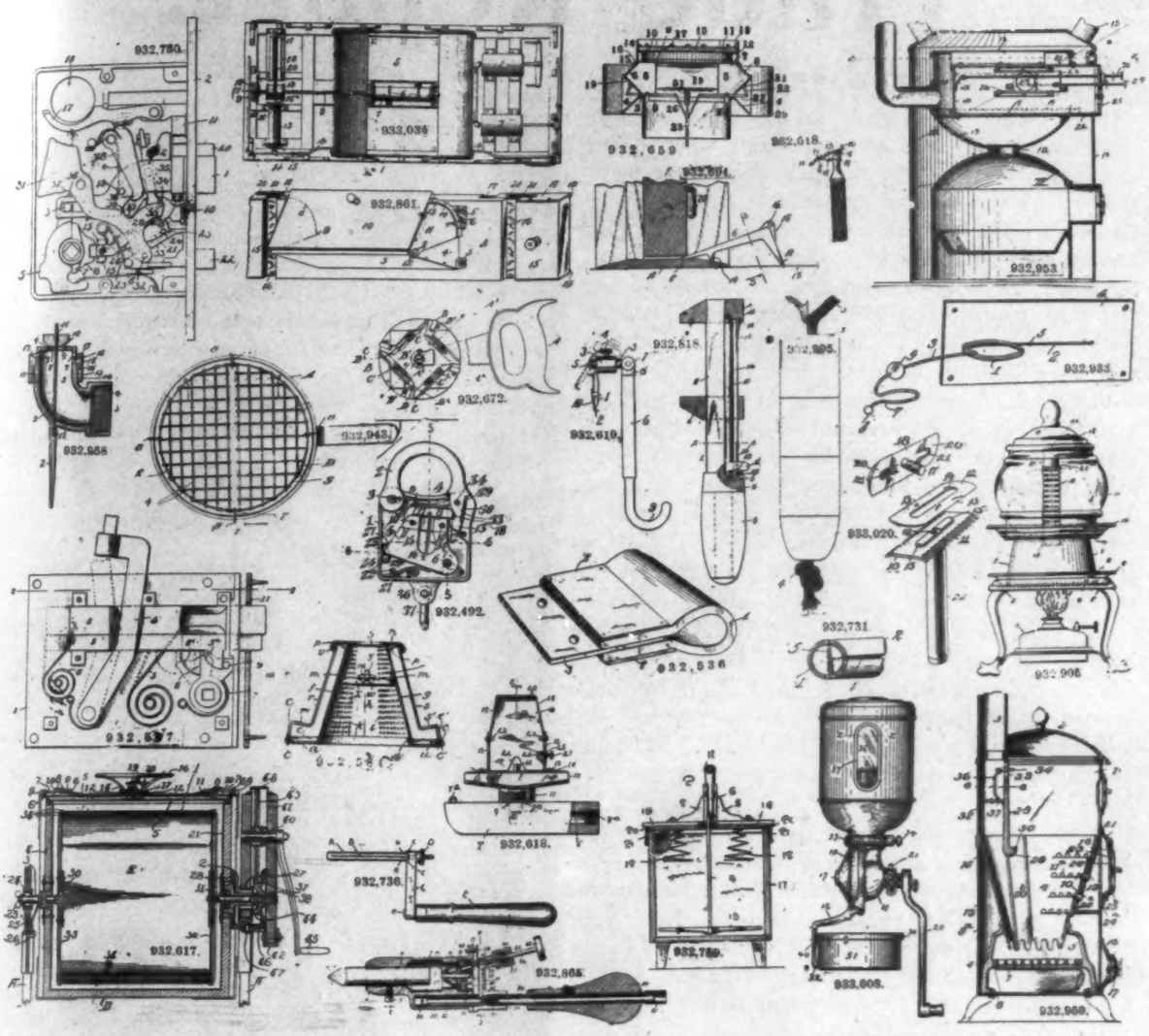
A pleasant remembrance wrapped with every article—a smile with every sale—are the best premiums you can use.

OBITUARY.

Geo. P. Schmitt.

Geo. P. Schmitt, of the firm of F. Schmitt & Sons Co., Milwaukee, Wis., and a member of the Master Sheet Workers' Association of Milwaukee, died recently at Rome, Wis., after an illness of only a few days. He was one of the pioneers of the sheet metal industry in Milwaukee, commencing in business with practically nothing, but attaining a great degree of success therein in later years. Six months ago he retired, though he still was one of the most active members of the Milwaukee association. Mr. Schmitt, who was 59 years of age, was a delegate from Milwaukee to the past three conventions of the National Association of Master Sheet Metal Workers. In his demise the Milwaukee local loses one of its most loyal and valuable members.

NEW PATENTS.



932,492. Seal Lock. Irenas J. Palmer, Olean, N. Y., assignor of one-half to Fred L. Gleason, Olean, N. Y. Filed Nov. 9, 1908. Serial No. 461,760.

932,507. Latch. Harry F. Smith, Richmond, Va., Filed Nov. 16, 1908. Serial No. 462,898.

932,518. Safety Razor. Philip H. Unsinger, Fremont, Ohio. Filed Oct. 17, 1908. Serial No. 458,149.

932,536. Strop for Safety Razor Blades Isaiah Conrad, Philadelphia, Pa. Filed May 8, 1909. Serial No. 494,785.

932,584. Toaster. Otto Schellert, Indianapolis, Ind. Filed Aug. 3, 1907. Serial No. 386,010.

932,617. Washing Machine. Albert L. Koeneke, St. Paul, Minn. Filed Aug. 31, 1907. Serial No. 390,883.

932,618. Lawn Sprinkler. Joseph C. Kunz, Fresno, Cal. Filed Feb. 12, 1908. Serial No. 415,519.

932,619. Safety Razor. Chester R. Lawrence, Roxbury, Mass. Filed Aug. 25, 1908. Serial No. 450,223.

932,659. Ventilator. Horace S. Welker, Akron, Ohio. Filed Mar. 25, 1909. Serial No. 485,760.

932,672. Carpenter's Plane. Michael M. Beahm, Norwood, Ohio. Filed Apr. 10, 1908. Serial No. 426,303.

932,694. Portable Lock for Doors and Windows. William Fulton and John F. Bengert, Denver, Colo. Filed Aug. 17, 1908. Serial No. 448,979.

932,730. Lock and Latch Mechanism. Henry G. Voight, New Britain, Conn., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn., a Corporation of Connecticut. Filed Mar. 13, 1906. Serial No. 305,757.

932,731. Wire Screen for Windows and the Like. William S. Welch and James D. Mumford, Westfield, N. J. Filed Dec. 8, 1908. Serial No. 466,483.

932,736. Device for Stropping the Blades of Safety Razors. Frank M. Williams, Potsdam, N. Y. Filed June 29, 1908. Serial No. 440,988.

932,759. Washing Machine. William D. Combs, Canon City, Colo. Filed July 7, 1908. Serial No. 442,329.

932,818. Wrench. Anton Serfoza, Chicago, Ill. Filed Apr. 28, 1909. Serial No. 492,746.

932,861. Window Ventilator. William G. Hintz and William E. Althouse, Reading, Pa. Filed Dec. 10, 1908. Serial No. 466,755.

932,865. Self Heating Soldering Iron. August Husson, Oshkosh, Wis. Filed Oct. 15, 1908. Serial No. 457,830.

932,905. Fruit Cooker. Ferdinand C. Roberts, Detroit, Mich. Filed Jan. 13, 1908. Serial No. 410,528.

932,933. Door Check. Carlos De Gusman Wood, Kents Store, Va., assignor of one-half to Nathaniel H. Myers, Kents Store, Va. Filed Dec. 10, 1908. Serial No. 466,852.

932,943. Culinary Utensil. Otto Bagula, St. Louis, Mo. Filed June 30, 1908. Serial No. 441,063.

932,953. Oven for Furnaces. Frank T. Booth, Des Moines, Iowa. Filed Mar. 6, 1909. Serial No. 481,744.

932,958. Lawn Spray Nozzle. Thomas Cadwallader, Salem, Ohio. Filed Mar. 31, 1909. Serial No. 486,984.

932,959. Stove. Edwin R. Cahoone, Troy, N. Y. Filed June 9, 1906. Serial No. 321,028.

932,995. Sash-Weight. George H. McKinley and Sidney Steenburgh, Moline, Ill. Filed Apr. 7, 1909. Serial No. 488,458.

933,008. Coffee or Spice Mill. Alonzo A. Warner, New Britain, Conn., assignor to Landers, Frary and Clark, New Britain, Conn., a Corporation. Filed Jan. 22, 1909. Serial No. 473,612.

933,020. Safety Razor. Osroe A. Clark, Newark, N. J. Filed Jan. 9, 1909. Serial No. 471,466.

933,034. Compressed Air Door Closer. Albert E. Hanson, Wakefield, Mich. Filed Oct. 5, 1908. Serial No. 456,317.

Trade Report.

HARDWARE.

Quiet progress was made in the local hardware market last week. Sales showed a slight increase over preceding weeks and the demand was quite general. While there was nothing of particular feature in the market, a good business was done and further good inquiry was noted. The latter is causing a more cheerful undertone in the market and the indications are that much improvement will be noted in the market in the next few weeks. The general expansion in trade, and more particularly in the iron and steel trade, is the cause of the improvement in the demand for hardware. Prices are firm and in some instances are stronger than they have been for some time past, there being an absence of the disposition to shade prices. There is a quiet demand for wire nails in the local market. The market for cut nails is also quiet and, if anything, business is on a smaller scale than a few weeks ago.

The base price of wire nails at the mill for jobbers is $1.80 per keg. The base price is $1.85 at the mill for full carloads and $2.00 at the mill for less than carloads. The base price of cut nails at the mill for jobbers is $1.90 per keg. The base price is $1.95 for full carloads at the mill, and $2.00 for less than carloads at the mill.

In the Chicago market wire nails are quoted as follows: Wire nails, jobbers' car lots, $2.03; retailers' car lots, $2.08; $2.15 out of store; painted barb wire, jobbers' car lots, $2.03; retailers' car lots, $2.08, with 30 cents for galvanizing; plain wire to jobbers in car lots, $2.03, and to retailers in car lots, $2.08.

Copper slating nails are quoted at 21 cents a pound, net.

The market for galvanized pails is very low and large buyers can purchase these goods at prices said to be 10 per cent below cost. The market for enameled galvanized, japanned and pieced ware is still in the same unsettled condition, and prices are now perhaps lower on these goods than they ever have been.

TIN PLATE.

The demand for tin plate continues good and as the canning season is drawing to a close manufacturers have been busy supplying rush orders as a result of the canners having under-estimated their requirements. Both the American Sheet and Tin Plate Co. and the independents are very busy and have been for some time past. For 100-lb. I. C. coke plates, 14x20, the price is $3.45 to $3.65, Pittsburg, subject to a rebate of 5 cents per box on large orders.

Quotations are as follows:

American coke tins, I. C., from store, New York:

Bessemer steel, 100 lbs., 14x20	$3.95@4.00
Bessemer steel, 95 lbs., 14x20	3.85@3.90
Bessemer steel, 90 lbs., 14x20	3.75@3.80
Am. charcoal terne, 8-lb. coating:	
Worcester grades, 14x20, 107 lbs	4.05@4.10
Worcester grades, 14x20, 100 lbs	3.90@3.95
Worcester grades, 20x28, 200 lbs	7.75@7.85

For prompt shipment, f. o. b. mill:

Coke, tins, 14x20, I. C	3.60@3.65
Coke, tins, 14x20, 100 lbs	3.45@3.50
Coke, tins, 14x20, 95 lbs	3.40@3.45
Coke, tins, 14x20, 90 lbs	3.35@3.40
Charcoal terne, 20x28, I. C	7.05@7.10
Charcoal terne, 20x28, 200 lbs	6.75@6.80

Usual difference for odd sizes and weights.

SHEETS.

The sheet market is very active and prices are being well maintained. The American Sheet and Tin Plate Co. report that for the first two weeks of this month the daily average over the same period last year is practically 1,000 tons. The following are Pittsburgh prices: Blue annealed sheets, Nos. 3 to 8, 1.60c; Nos. 9 to 10, 1.65c; Nos. 11 and 12, 1.70c; Nos. 13 and 14, 1.75c; Nos. 15 and 16, 1.85c; box annealed sheets, Nos. 10 to 12, 1.85c; Nos. 13 and 14, 1.90c; Nos. 15 and 16, 1.95c; Nos. 17 to 21, 2c; Nos. 22 to 24, 2.05c; Nos. 25 and 26, 2.10c; No. 27, 2.15c; No. 28, 2.20c; No. 29, 2.25c; No. 30, 2.35c; galvanized sheets, Nos. 13 and 14, 2.25c; Nos. 15 and 16, 2.40c; Nos. 17 to 21, 2.50c; Nos. 22 to 24, 2.65c; Nos. 25 and 26, 2.85c; No. 27, 3.05c; No. 28, 3.25c; No. 29, 3.40c; No. 30, 3.65c; painted roofing sheets, $1.55 per square for No. 28 gauge, 2½-inch corrugation, and galvanized roofing sheets, $2.80 per square for No. 28 gauge, 2½-inch corrugation.

COPPER.

The speculative second-hand dealers in copper appear to have forecast the probable tenor of the monthly report of the Copper Producers' Association very correctly, as indicated by the liberal selling noted last week. The report was the most discouraging issued for months. For the first time since April, an increase was shown in the surplus stocks, and the report has undoubtedly given the market a very serious setback. The production for August was given as 120,597,234 lbs.; deliveries, 107,996,911 lbs.; home consumption, 59,614,207 lbs.; export deliveries, 48,382,704 lbs.; stock on hand in the United States Sept. 1, 135,196,930 lbs.

The domestic market for copper is weak and lower, with the large consumers holding off. There is a fair demand from small buyers, and sellers are more anxious for business and more willing to sell futures. Lake copper is quoted at 13@13¼c for spot and nearby deliveries; electrolytic, 12¾@13c; casting brands, 12½@12¾c. Producers appear to have a great deal of confidence in the future, as shown by the record production in August.

The London copper market shows a net decline for the week of 11s 3d on both spot and futures.

Extreme fluctuations for this year:

	Highest.	Lowest.
Lake	14.55	12.55
Electrolytic	14.25	12.12½
Casting	14.12½	12.00
London, spot	£64 2 6	£54 12 6
London, future	64 17 6	55 10 0
London, best selected	67 15 0	59 0 0

ANTIMONY.

Antimony is dull and easy at 8¼@8½c for special brands and 7¼@7⅝c for ordinary brands.

SHEET ZINC.

Sheet zinc prices are as follows: Cask lots, 7¾@8⅜c; less than cask lots, 8¾@9⅜c.

ALUMINUM.

There is a fair business doing in aluminum and the market continues firm. No. 1 ingots for melting are offered at 24c per pound and No. 2 ingots at 23@25c in car lots for 90 per cent. pure. Rods and wire are being held at 32c a pound and sheets at 34c a pound, all in ton lots.

IRON BARS.

There is a better demand for iron bars and the tone of the market is firm. Quotations are as follows: 1.60@1.65 for best refined bars and 1.55 for ordinary.

PIG IRON.

There is very little change to note in the local demand for pig iron. The recent buying wave was very much more pronounced in the West and in New York and Pennsylvania than in New England, but the foundry people in the last mentioned locality are melting iron on a normal scale and are buying steadily to keep up their stocks. In other sections the market is perhaps a little more quiet, but not more so than was naturally to be expected after so heavy a demand.

The smaller buyers are now operating to some extent, and in some cases are showing a disposition to buy as far into 1910 as the sellers will allow. There is, however, a tendency to go slow on the part of the furnacemen, for the more distant deliveries. Many of the furnaces have withdrawn from the market entirely, and those who are still selling limit the tonnage to small lots. In many cases each transaction has to be made subject to approval by the furnace, and while small lots are obtainable, the supply is quickly shut off.

Prices are very firmly held, and while there does not appear to have been any further advance during the past week, there seems to be no doubt that there is less cutting of prices. The furnaces that are in the market are nearer together in the matter of prices than has been the case for a long time. Alabama iron is quoted at $14@14.50 ton f. o. b. Birmingham for delivery during the balance of the year, while for 1910 delivery at least 50c ton more is asked.

Virginia iron is very firm at $15 ton, Roanoke, for all deliveries this side of Jan. 1, while for 1910 delivery a substantial premium is being asked. For northern iron, there continues to be a very firm market at $18.50@18.75 ton, New England delivery, for the balance of the year, with a premium of 50c ton being asked for delivery after Jan. 1.

The production of pig iron in this country has recently fluctuated more violently than usual. In the first eight months of this year the total output was 15,239,096 tons, or 5,916,685 tons more than in the same period in 1908. In 1907 production for the first eight months was no less than 17,735,064 tons, which was the largest production in the first eight months of any year.

CHICAGO MARKET.

Northern foundry No. 1	$18.50@19.00
Northern foundry No. 2	18.00@18.50
Northern foundry No. 3	17.50@18.00
Southern foundry No. 1	18.35@18.85
Southern foundry No. 2	17.85@18.35
Southern foundry No. 3	17.10@17.60
Southern foundry No. 4	16.60@17.10
Southern No. 1 soft	18.35@18.85
Southern No. 2 soft	17.85@18.35

PITTSBURG MARKET.

Bessemer, valley	$ 17.00
Bessemer, Pittsburg	17.90
No. 2 foundry, Pittsburg	16.90@17.15
Gray forge, Pittsburg	15.90@16.15
Basic, valley	15.75@16.00
Basic, Pittsburg	16.65@16.90

BIRMINGHAM MARKET.

No. 1 foundry	$14.00@14.50
No. 2 foundry	13.50@14.00
No. 1 soft	14.00@14.50
No. 2 soft	13.50@14.50

Rogers, Brown & Co., Cincinnati, say in their weekly report:

"Continued brisk business with prices on a higher plane marks the pig iron situation for the week. Strength and buoyancy in all lines accompany the movement in pig iron and large contracts for steel-making iron have been placed, including Bessemer sales in Pittsburg and Basic sales in the East. Reports that large consumers heretofore manufacturing the bulk of pig iron used by them will be good purchasers from now on, has stimulated the market.

"Disinclination of furnaces to quote for next year is as much in evidence as ever and several of those which have been offering for the first quarter and first six months of 1910 have filled their order books to a point satisfactory to them and are refusing further business for the time being.

"The larger concerns continue to buy heavily and the average consumer continues to show interest in supply of pig iron to July 1, 1910.

"Production of pig iron during the month of August was 2,232,000 tons, an increase over the July output, and was promptly absorbed by the trade. This is at the rate of 26,800,000 tons a year and shows at what pace consumption is proceeding at the present time and what an improvement has been effected over two months ago.

"The car shortage is becoming acute and promises to be a very active factor in shipping both pig iron and coke from now on, in spite of the railroads continuing to place liberal orders for rolling stock.

"Coke is now certainly on the active list and prices have advanced sharply on all grades. Buyers are somewhat less disposed to place contracts because of the recent sharp advance, but ovens are firm and other advances are expected. The output in all districts is increasing and being promptly taken as far as it is possible for the railroads to handle it. Shortage of labor is still a big item and will so continue. Several large furnace contracts have been placed for fuel during the first half of next year at a price in advance of what they have been paying for some time past. Some producers in the Connellsville field are so well fixed regarding sales that they prefer not to quote, or when they do it is only at a price considerably higher than they have hitherto sold."

Matthew Addy & Co., Cincinnati, say in their weekly report:

"Continued heavy buying and a demand that seems to have no limit make up the record of the week. It is evident that consumption is growing with great rapidity—in fact our own observation leads us to believe that more iron is being melted today than is realized by even most of the very sanguine men in the trade. Production at a tremendous rate was the first effect of the revival in business and for a season it seemed as if so much iron was being made that the thing was going to be altogether overdone. But as time progressed these fears proved to be groundless and it will not be surprising, if nothing occurs to check matters, to find that consumption has forged ahead so that presently iron will be in short supply. A few months ago any intimation of such a state of affairs in the near future would have appeared utterly ridiculous, but now it seems quite probable.

"There is the greatest optimism among iron masters, though no one wants to see a runaway market, which would do much more damage than good. But that the whole market is tending towards higher prices and a wider demand is evident.

"In northern iron the price for the early part of next year is firmly established at $16.50 and southern Ohio furnace and Birmingham No. 2 is between $14.00 and $15.00, depending on the views of the seller."

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	14x20	$6 40
IX	14x20	7 45
IXX	14x20	8 60
IXXX	14x20	9 85
IXXXX	14x20	11 00
IC	20x28	13 70
IX	20x28	15 70
IXX	20x28	18 15
IXXX	20x28	20 55
IXXXX	20x28	22 95

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$ 8 50
Cokes, 200 lbs	IC	20x28	9 00
Cokes, 216 lbs	IC	20x28	9 50
Cokes, 270 lbs	IX	20x28	11 25

PIG IRON.

North'n Fdy., No. 1	$18 00@$18 50
North'n Fdy., No. 2	17 50@ 18 00
North'n Fdy., No. 3	17 00@ 17 50
Southern Fdy., No. 1	18 35
Southern Fdy, No. 2	17 85
Southern Fdy., No. 3	17 10
Southern Fdy., No. 4	16 60
Southern No. 1 Soft	17 85
Southern No. 2 Soft	17 35
Southern Gray Forge	15 85
Southern Mottled	15 60
Lake Sup. Charcoal	19 50@ 20 00
Southern Silveries, 4% Silicon	17 35@ 17 85
Southern Silveries, 5% Silicon	17 85@ 18 35
Southern Silveries, 6% Silicon	18 85@ 19 85
Jackson Co. Silveries, 6 per cent	19 90
Jackson Co. Silveries, 8 per cent	20 90
Jackson Co. Silveries, 10 per cent	21 90
Malleable Bessemer	17 00@ 17 50
Standard Bessemer	17 65@ 17 90
Alabama Basic	16 85@ 17 35

BLACK STEEL SHEETS.

No. 12 per 100 lbs.	$2 15@$2 25
No. 14 per 100 lbs.	2 20@ 2 30
No. 16 per 100 lbs.	2 30@ 2 40
Nos. 18-20 per 100 lbs.	2 50@ 2 55
Nos. 22-24 per 100 lbs.	2 55@ 2 60
No. 26 per 100 lbs.	2 60@ 2 65
No 27 per 100 lbs.	2 65@ 2 70
No 28 per 100 lbs.	2 75@ 2 80

GALVANIZED

No. 10 per 100 lbs.	$3 00@$3 10
Nos. 12-14 per 100 lbs.	3 00@ 3 10
No. 16 per 100 lbs.	3 00@ 3 10
Nos. 18-20 per 100 lbs.	3 05@ 3 15
Nos. 22-24 per 100 lbs.	3 20@ 3 25
No. 26 per 100 lbs.	3 40@ 3 45
No. 27 per 100 lbs.	3 60@ 3 65
No. 28 per 100 lbs.	3 80@ 3 90

POLISHED SHEET STEEL.

No. 24 per 100 lbs	$4 90
No. 26 per 100 lbs.	5 00
No. 27 per 100 lbs.	5 10
No. 28 per 100 lbs.	5 20

SMOOTH STEEL.

Wood's Smooth, No. 20	$3 05
" " No. 22-24	3 10
" " No. 25-26	3 15
" " No. 27	3 20
" " No. 28	3 30

PATENT PLANISHED SHEET IRON.

Patent Planished Sheet Iron, "A" $10.20, "B" $9 20

PATENT PLANISHED SHEET STEEL.

Dickey Planished Sheet Steel 8½c

SOLDER.

XXX Guaranteed ½ & ½ per lb.	18 c
Commercial ½ & ½ per lb.	17½c
No. 1 Plumbers	15½c

SHEET ZINC.

500 lb. Casks case, per cwt.	$7 15
300 lb. Casks per cwt.	7 15
Sheets per cwt.	7 15

COPPER.

Copper sheet, 100 lbs. over, base 17c

TIN PIGS AND BARS.

Banca, pigs, per lb	29 c
Straights, pigs, per lb	29 c
Straights in bars, per lb	33 c

LEAD.

American Pig	4.37½@4.40
Bar	4.37½@4.40
National (White) brands (in less than 100 lb lots), per lb	8½c

Sheet.

Full coils per 100 lbs.	$9 00
Cut coils per 100 lbs.	9 50

HARDWARE.

ADZES.

Carpenters'.	
Plumbs	40%
Coopers'.	
Barton's	15%
White's	15%
Railroad	
Plumbs	40%
Ship.	
Plumbs	40%
White's	15%

AMMUNITION.

Caps, Percussion—per 1,000.	
F. L Waterproof, 1-10s	40c
G D	35c
Musket	60c
Shells, Loaded—	
Loaded with Black Powder	40%
Loaded with Smokeless Powder, medium grade	40 & 5%
Loaded with Smokeless Powder, high grade	40 & 10 & 10%
Union Metallic Cartridge Co.:	
New Club, Black Powders	40%
Nitro Club, Smokeless Powders,	40 & 5%
Arrow, Smokeless Powders	40 & 10 & 10%
Winchester:	
Smokeless Repeater Grade	40 & 5%
Smokeless Leader Grade	40&10&10%
Black Powder	40%
Gun Wads—per 1,000.	
Winchester Gun Wads	15%

Powder.	Each.
DuPont's Sporting, kegs	$5 50
" " ½ kegs	2 90
" " ¼ kegs	1 60
Dupont's Sm'k'less	50-lb. drum 22 75
" "	25-lb. kegs 11 30
" "	12½-lb. kegs. 5 80
" "	6¼-lb. kegs. 2 97
"	1-lb. cans 52
Shot.	
Drop shot, sizes smaller than B, 25-lb. bags, per bag	1 95
Drop shot, B and larger sizes, 25-lb bags, per bag	2 20
Buck Shot, 25-lb. bags, per bag	2 20
Chilled Shot, 25-lb. bags, "	2 20

ANCHORS

Expansion Screw Anchors 10%

ANVILS

Trenton, 70 to 80 lbs	9½c per lb
Trenton, 81 to 150 lbs	9½c per lb

ASBESTOS.

Board and Paper 33⅓%

AUGURS.

Boring Machine	70%
Irwin's	40&10%
Carpenter's Nut	70%
Hollow.	
Bonney's—list $30.00	75&5%
Stearns, No. 3	36 00
Post Hole.	
Digwell, 8-inch per doz.	12 50
Iwan's Post Hole and Well	40%
Vaughan's, 4 to 9-in., per doz.	6 60
Rafting.	
Snell's	50&5%
Ship.	
Ford's, with or wi'out screw	40-10%
Snell's " " "	40-5%

AWLS.

Brad.	
No. 3 Handled per doz.	$0 40
No. 1050 Handled "	90
Shouldered, assorted, 1 to 4, per gro.	$1 20
Patent asst'd, 1 to 4 "	85
Harness.	
Common "	95
Patent "	90
Peg.	
Shouldered "	1 50
Patent "	60
Scratch.	
No 1 handled "	4 80
No. 1S, socket handled per doz.	1 25
No. 7 Stanley	1 80
Sewing.	
Common per gro.	90
Patent "	90

AXES.

Boy's Handled.	
Lippincott, 3 lb. per doz.	$6 00
Marshall Falls City	5 50
Broad.	
Plumbs, West, Pat	33⅓%
" Can. Pat	35%
" Firemen's (handled) per doz	$19 00
Plumbs, Miners' (handled) "	9 00
Single Bitted (handled)	
Blood's Champion	$10 50
Blood's Dull Finished	9 00
Rough Rider	9 50
American	6 50
Perfect Premier, Forest Clipper	10 00
Duquesne	6 00
Single Bitted (without handles)	
Blood's Champion	$7 90
Blood's Dull Finish	8 00
Rough Rider	7 00
Electric Chopper	8 25
Duquesne	5 50
Crown	6 25
Double Bitted (without handles).	
Blood's Champion, 3½ to 4½ lbs. per doz	$10 00
Flint Edge " "	9 75
Perfect Premier " "	11 00

The above prices on axes of 3 to 4 lbs. are the base prices.

3½ to 4½ lbs. advance 25c
4 to 5 lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$2.50	3.75	4.50	5 00

BALANCES, SPRING.

Frary's	40%
Pelouze	20%

BARS, CROW.

Pinch or Wedge Point per cwt. $3 75

BASKETS.

Clothes.			
Small Willow per doz.	$7 00		
Medium " "	8 75		
Large " "	10 50		
Galvanized Iron.	½ bu.	1 bu.	1½ bu.
Per doz	$4 75	6 50	8 00

BEATERS.

	Per doz.
Carpet.	
No. 13 Tinned Spring Wire	$0 90
No. 11 Spring Wire coppered	1 20
No. 10 Preston	1 10
Egg.	Per doz.
No. 50 Imp. Dover	$0 75
No. 102 " " tinned	85
No. 150 " " hotel	1 50
No. 10 Heavy hotel tinned	2 10
No. 13 " " "	3 20
No. 15 " " "	3 60
No. 18 " " "	4 50

BELLOWS.

Blacksmiths'	65%
Hand.	
8-inch per doz.	$8 50
10-inch "	10 50
Moulders'.	
12-inch "	13 00

BELLS.

Call.	
3-inch Nickeled Rotary Bell, Bronzed base per doz.	$5 00
Cow.	
High Grade	60%
Kentucky	65&10%
Door.	Per doz.
New Departure Automatic	$6 00
Rotary.	
3 -in. Old Copper Bell	4 00
3 -in. Old Copper Bell, fancy	5 00
3 -in. Nickeled Steel Bell	4 50
3½-in. Nickeled Steel Bell	5 00
Hand.	
Hand Bells, polished	40&10%
White Metal	40%
Nickel Plated	30%
Swiss	40&23⅓%
Silver Chime	33⅓%
Miscellaneous.	
Church and School, steel alloy	50%
Farm, lbs 40 50 75	100
Each $1.80 2.25 3.38	4.50

BEVELS, TEE

Stanley's, rosewood handle, new list	25%
Stanley's iron handle	25%

BINDING, OILCLOTH.

Zinc	80%
Brass	75%
Brass plated	75&5%

BITS.

Auger.		
Extra Double Spur		70&10%
Ford's Car and Machine		40&10%
Ford's Ship		40&10%
Irwin		50%
Russell Jenning's		25&10%
Clark's Expansive		60%
Steer's " Small list, $22.00		25%
" " Large " $26.00		25%
Irwin Car		50%
Ford's Ship Auger pattern Car		40&10%
Center		25%
Countersink.		
No. 18 Wheeler's per doz.		$1 50
No. 20 " "	"	2 25
American Snail head	"	1 00
" Rose "	"	1 00
" Flat	"	80
Mayhew's Flat	"	1 10
" Snail	"	1 25
Dowell		
Russell Jennings		25&10%
Gimlet.		
Standard Double Cut		60%
German Pattern per doz.		$0 69
German	"	65
Gouge	"	80
Spoon	"	1 00
Countersink	"	1 20
Reamer.		
Jenning's Square	"	2 50
Standard Square	"	1 20
German Octagon	"	75
Screw Driver.		
No. 7 Common	"	50
No 1 Triumph	"	1 25

BLACKING, STOVE. (See Polish).

BLADES, SAW

Butchers'.
Standard, ¾ & 1¼-in.....40%
Clock Spring.....40%
Star.....15%
Coil.....each, $1 50

Hack.
Disston's.....25&5%
Flexible.....33⅓&5%
Star.....20&5%

Wood.
Jackson's.....per doz. $2 25
Disston's—No. 6, 16, 26 & 045.. 4 25
Triumph..... 3 50
Forest Clipper..... 3 00

BLOCKS.

Snatch.
Wooden.....60&10%
Steel.....50%

Tackle.
Iron Strapped.....70&10%
Com. Steel.....60%

BOARDS. (New List)

Stove.....50&10%

Wash.
Globe, single.....per doz. $2 50
Globe, double..... " 3 35
Memphis Globe ..... " 2 75
Crystal Glass..... " 4 00
Brass King..... " 3 75
Nickel Plate..... " 4 15

BOBS, PLUMB.

Carpenters'.
No. 2, iron.....per doz. $0 65
No. 00, " ..... " 1 30
No. 0, " ..... " 2 20
No. 3, lead..... " 2 75
No. 4, " ..... " 3 40
No. 113, brass plated.. " 1 10
No. N30, nickel plat'd. " 1 30
No. N31, " " " 1 85

BOLTS.

Carriage, Machine, etc.
Carriage, ⅜x6 and sizes smaller and shorter.....70&10%
Carriage, sizes larger and longer than ⅜x6.....60&10%
Machine, ⅜x4 add sizes smaller and shorter.....70&10%
Machine, sizes larger and longer than ⅜x4x4.....60&5%
Elevator.....50-10&5%
Plow.....60&10%
Stove .....80&10%
Tire.....75%
Wagon Box Strap.....70%

Mortis, Door.
Gem, iron.....60%
Gem, bronze plated.....20%

Barrel.
Cast.....60%
Wrought.....75&10%
Wrought, bronzed.....60%

Flush.
Wrought.....50&10%

Spring.
Wrought .....75&10%
Wrought, heavy.....70&10%

Square.
Cast.....50&10%
Wrought.....75&10%

BORERS.

Angular.
Miller's Falls.....per doz. $13 00

Bung.
Doz.
Enterprise Mfg. Co.'s No 1.....30%
" " " No 2.. 20%

BOXES

Mail, No..... 1 2 10
Per doz.....$3.50 5.00 17.50

Miter.
New Langdon.....15&5%
Stanley's.....30%
Seavey's.....each, $1 50

BRACES.

Barber's ..... 50&10%
Fray's Genuine Spofford's.....60%
" Nos. 66 to 146.....50%
" No. 0108..... $3 50
" No. 08..... 2 75
" No. 010..... 3 00

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1, per doz. $9 00
" No. 2, " 9 00

Shelf.
Cast Iron, bronzed.....50-10&5%
Clover Wrought Steel.....70&10%
Clover Folding 70%

BROILERS.

Wire 70%
No. Brown, Self-basting, 80doz .. $2 50

BUCKETS.

Pump, Rubber.
Wychoff.....per gro. $4 75
Cooper..... " 4 75
Champion..... " 7 50
Victor..... " 9 25
Star ..... " 5 00
IXL..... " 6 75

Veil.
Galv'd Qts..... 10 12 14
Per doz.....$2.90 $3.25 $3.40
Wooden, top ear, plain, per doz. 4 00
" " swivel, " 5 10

BUCKS, SAW.

Folding.....per doz. $2 10

BURRS, RIVETING.

Copper Burrs only.....20%
Tinners' Iron Burrs only.....65&5%

BUTTS.

Cast Iron.....70&5%
Wrought Brass (New List)....40&10%
Wrought Steel, Bright.....80&10%
Wrought Steel, Japanned.
Nos. 731 and - .....70&10&10%

CALIPERS.

Double..... .35%
Inside and Outside.....35%
Wing.....30%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M..... $3 75

Toe.
Shoenberger.....per lb 5 c
Bessemer..... " 4½c
American..... " 7 c
Swedes..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.
Gallons..... 20 30 40
Each..... $4.25 $5.00 $6.25

Milk.
Holstein.
Nos..... 300 301 302
Gals..... 5 8 10
Per doz.....$17.50 $22.00 $25.60

Gem Pattern.
Nos..... 400 401 402
Gals..... 5 8 10
Per doz.....$17.50 $21.50 $23.50

Omega Pattern.
Nos. ..... E. 2 E. 3
Gals..... 8 10
Per dozen..... $23.50 $26.50

Jersey Pattern.
Nos..... 80 81
Gals..... 8 10
Per doz..... $23.00 $27.00

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Diamond, Regular.....each, $3 85
Diamond, Sling..... " 6 50
Myers' Imperial ..... " 3 85
Myers' Clover Leaf..... " 4 00

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing.....50&10%
Bed.....60&5%
Common Plate.
Brass Wheel.....60&10%
Iron and porcelain wheels, new list.....60&5%
Philadelphia Plate, new list.....60%
Martin's.....60%
Payson's.....75&10%

CATCHERS, GRASS.

Carroll's, No. C.....per doz. $4 25
Wildermuth's,.
Nos..... 1 2 3
Per doz.....$5.60 $5.75 $6.25
Nos..... 4 5 6
Per doz.....$6.75 $9.50 $10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack.....doz. pairs, $5 75
With Covert Snaps. " 5 00
With Slide..... " 3 25
Without Slide..... " 2 85

Bright Ox Chains.
½-in. $7.25; ⅝-in. $5.45 per 100 lbs.

Cable Coil Chain.
Inch..... 5/16 ⅜ 7/16 ½
Per 100 lbs.$10.80 $8.00 $7.00 $6.20
Inch..... 5/16 ⅜ ½ ⅝
Per 100 lbs.$6.00 $5.90 $5.75 $5.65
Inch..... ⅝ 1 1¼
Per 100 lbs.....$5.55 $5.55 $5.65

Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil.

Cow Tie Chains.
American, 2 toggle.....50&5%
" toggle and snap...50&5%
" open and closed ring.....50&5%

Halter Chains.
American, new list.....33⅓%
German.....60%
Niagara, new list 40%
Brown's, " 40%

Picture Chains.
Light Brass, 3 ft.....per doz. $0 75
Heavy Brass, 3 ft .... " 1 30

Pump Chain
Galvanized, per 100 lbs.....$5 50

Safety Chain.
Brass.....60%

Special Steel Loading Chain.
Inch..... ⅜ 7/16 ½
Per 100 lbs.....$16.00 $13.50 $12.50

Stretcher Chains.
7/16-in. $8.50; ⅜-in. $7.75 per 100 lbs.

Tie-Out Chains.
Brown's.....70&5%

Trace Chains.
Western Standard.
6½— 6-2.....per pair 30c
6½— 8-2..... " 34c
6½— 8-3..... " 33c
6½—10-2..... " 38c
7 — 8-2..... " 38c
7 —10-2..... " 42c
7 —10-1..... " 48c
7 —10-0..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.

Wagon Stay Chains.
Inch..... ⅜ 7/16 ½
Per 100 lbs.....$6.50 $6.00 $5.50

CHALK, CARPENTERS'.

Blue.....per gro. 75c
Red..... " 65c
White..... " 55c
Common White School
Crayon..... " 10c

CHARCOAL.

In bags..... .....per bag 90c

CHECKS, DOOR.

Blount.....33⅓%
Sargent's.....33⅓%

CHIMNEY TOPS.

Iwan's Volcano.....50%

CHISELS.

Box.
Inches..... 10 12 14
Round per doz....$2.10 $2.25 $2.75
Flat " ... 2.85 3.60 4.20

Cold.
Good quality, ⅜ in. and larger.....per lb. .13c
Smaller size per doz.....

Socket, Framing and Firmer.
Clover.....75&10%

Tanged, Firmer.
With handles.....30&5%

Choppers, See *Cutlers, Meat.*

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers.....per doz. $6 25
Yankee, for Yankee Screw Drivers..... 5 00

CHURNS.

Anti-Bent Wood,
Gal..... 5 7 10
Each.....$3.90 $4.60 $4.85
Belle, Barrel.....65&7½%
Common Dash, Gal. 4 5 6
Per doz..... $7.75 $8.50 $10.50
Union, Gal..... 5 7 10
Each.....$3.65 $3.90 $4.75

CLAMPS.

Adjustable.
Martin's.....30%

Carpenters'.
Steel Bar.....25%

Hose.
Sherman's, brass, ½-in., per doz.. 42c
Double brass, ½-in., " 90c

Saw Filers.
Disston's list, $30.00.....30%
Stearns', No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's, No. 1, $6.00; No. 3 $8.10.

CLAWS, TACK.

Cast, wood hdle.....per doz.45@60c
Forged steel, wood hdle " $0.80
Solid steel..... " 1 00
Giant..... " 50

CLEANERS.

Drain.
Iwan's Adjustable.....55%
Iwan's Stationary.....40&5%

Pot.
Wire.....per doz. $0 75

Side-Walk.
Steel.....per doz. $3 25
XLCR .....65&5%

CLEAVERS

Family.
Griffin, Inch..... 6 7 8
Per doz.....$5.50 $5.75 $6.25
Royal.....per doz. 2 25

Butchers.
Plumbs.....25%

CLEVISES

Malleable .....5½c lb.

CLIPPERS.

Bolt.....$1.90@4.75

CLIPS.

Axle.....65&5%

Damper.
Standard.....per doz. 65c
Troy..... " 38c

Hame..... " 17

CLOTH

Emery.
Star.....50%
B. & A.....50%

Hardware Wire—full rolls (100 ft.)
1 to 3 incl., Galv.—in full roll... 2 75
4 and 5..... " .. 3 00
6..... " .. 3 25
7 and 8..... " .. 3 75

Screen Wire.
12 mesh, painted, per 100 sq. ft.. 1 35

COCKS AND FAUCETS.

Compression Plain Bibbs...60, 10&5%
Lever Bibb Cocks.....60, 10&5%
Compression Hose Bibbs 50—10&5%
Telegraph Faucets (new list)..50—5%
Racking Cocks (new list)...60, 10&5%
Compression Lock C'kn(new list).70%
Andrew's Brass Faucets.....70%
Angle Plug Faucets, per doz....$0 85
Milk Can Faucets, per doz..$2.60-4.20
Petroleum Faucets .....75&5%

COLLARS, STOVE PIPE.

Inches..... 5 6 7
Plain Tin..per gro.$1.90 $2.40 $3.50
Japanned Tin " 3.00 3.60 4.25
Lacquered Brass" 3.00 5.50 4.25

COMBS, CURRY.

Nos... 000 11 15 30 80 108
Per
Doz..$.37 .60 1.90 .90 1.15 .80
Nos... 299 320 390 532 620 1400
Per
Doz.$1.05 .85 1.35 1.20 .75 1.40

COMPASSES.

Carpenters'.....60%
Pencil—Faber's.....per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 lb.....per lb 30c
1½ lb.....31c 2 lb... " 29c
3 lb and larger..... " 26c

CORD.

Picture
White Wire (new list) .....85&10%

Sash.
Monarch Braided Flax...per lb
Silver Lake. white. 7-32 in. "
Silver Lake, white, 8-32 in. "
Keystone.....8-32 in. " 29c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....40&10%
Williamson's Forged Worm.....50%

COTTERS, SPRING.

All sizes—new list.....80&30%

COUPLINGS, HOSE.

Brass.....per doz. $1 00
Brass Plated..... " 85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine....per doz.$22 75

CRAYONS—See Chalk.

CROW BARS.

Inch or Wedge Point.....per lb 3½c

CUTTERS.

Glass.
Red Devil.....45%
Smith & Hemenway Co.....50%
Woodward.....40%
Meat.
Enterprise, Nos. 5, 10, 12, 22, 32 and 42.....25%
No. 202, list, $1.50 ea.....40&7½%
Pipe.
Stanwoods. No.... 1 2 3
Each.....$0.85 $1.50 $4.00
Slaw and Crout.
3-knife Crout.....per doz. $0 75
1-knife Slaw..... " 1 65
2-knife Slaw..... " 2 25
Washer..... " 7 75

DAMPERS, STOVE PIPE.

Jewel.....50&10%
American.....50%

DIES AND STOCKS.

Discount.....40%
King's, Little Giant.....33⅓%

DIGGERS.

Post Hole.
Acme.....per doz. $9 25
Atlas..... " 9 00
Eureka..... " 7 50
Hercules..... " 10 25
Iwan's Split Handle.. " 7 50
Iwan's Perfection.... " 9 00
Iwan's Hercules pattern " 10 00
Ryan's..... " 17 00
See also Augers—Post Hole.
Dividers, Wing.....65&10%

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel, painted...per doz. $7 93
1⅛ in. 4-panel, painted... " 9 50
1⅛ in. 3-panel, natural pine, fancy..... " 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock.....60&10%
Blacksmith's Twist.....60%
Breast.
Fray's No. 9.....each, $1 75
Millers Falls No. 12..... " 2 10
Hand.
Goodell's Automatic.
Nos..... 01 03 3 20
Per doz.. $7.75 $12 50 $12.50 $11.00
Goodell's Single Gear. per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell's.....per doz. 16 50
Bit Stock.
Standard List..60&5%@60%@10

DRIVERS, SCREW.

Standard.....65&10%
Lock Ferrule.....60%
Champion.....40&10%
Champion Pattern.....70%
Clark's Interchangeable.....30%
Edison.....60%
Reed's Lightning.....45&5%
Goodell's Spiral.....50, 10, 5&2½%
Yankee Ratchet.....50%
" " Spiral.....50&10%
Smith & Hemenway Co.....40&5%

EAVES TROUGH, GALVANIZED.

Terms, 2% for cash. Factory shipments generally delivered.

See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches..... 5 6 7
Smooth, per doz...$0.75 $0.85 $1.20
Plan'd, " 1.80 2.00 2.65
Corrugated Conductor.
Discount.....75&10%
Corrugated Stove.
Inches..... 5 6 7
Smooth, per doz..$0.85 $1.00 $1.50
Pol'd, " .. 1.40 1.65 2.25
Plan'd, " .. 2.15 2.65 3.40
Four-Piece Stove.
Inches..... 5 6 7
Smooth, per doz..$0.60 $0.85 $0.95
Planished. " .. 1.40 1.70 2.30

EMERY CLOTH—See Cloth.

EMERY TURKISH.

Size.....5-lb. pkgs. ½ kegs, kegs.
No 60 to 150, per lb.. 6c 4c 4c
Flour..... " ... 5c 3c 3c

ENAMEL, IRON.

A-B Iron Enamel, 3 doz. case, ...per gro., 15 00
Peerless..... 1 25

EXTRACTORS, PIG.

See Forceps, Pig

EYES.

Bright Wire Screw—See Goods, B. W.
Drifting Pick.....60, 10&5%
Hooks and—
Brass.....50&10%
Iron.....70%

FASTENERS, STORM SASH.

Schroeder's.....per doz. $0.85
Sensible..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Delta.....70&10%

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior.....per doz. $4 75
Whisson's Imp..... " 5 25

FORKS.

Barley.
Steel New List.....65&10%
Wood, 4-tines, per doz.....$5 00
Coal, Coke, Cottonseed.....30%
Hay.
2-tine.....60%
3 " .....60&5%
4 " .....60&10%
Digging.....65&5%
Scoop.....30%
Header.
3-tine.....60&5%
4 " .....60&5%
Manure.
4-tine.....60%
Ore.....40%
Spading.

FRAMES.

Hack Saw.
Union.....per doz. $5 75
Jenning's adj..... " 7 50
Cast..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts..... 1 2 3 4 6
Each...$1.10 1.30 1.50 1.80 2.30
Qts..... 8 10 12 15
Each.....$2.95 3.80 4.50 5.20
Jack Frost.
Qts..... 2 3 4 6 8 10
Price .$1.60 1.90 2.20 2.80 3.60 4.65

GAUGES.

Butt and Rabbet.
Cream Pail.
Fairmont.....per doz. $3 75
Marking, Mortise, etc.....
.....50&10%
Saw.
Wire.
Disston's.....25%

GIMLETS.

Discount.....35@40%

GLASS, WINDOW.

Single.....90&20%
Double.....90&25%

GLASSES, LEVEL.

GLUE.

Bulk.
B Amber.....per lb. 12
A White..... " 15
H. S. Amber..... " 16½c
Liquid.
Army & Navy.....40%
Le Page's—
List "A".....37½%
List "B".....33⅓%
List "C".....25%

GOODS.

Bright Wire.....90%

GREASE, AXLE.

Wood Boxes.
Diamond.....per gro. $5 50
Frazer's..... 9 50
Hub Lightning..... 5 25
Paragon..... 6 75
Wood Pails.
Frazer's, 15 lb. 80c; 25 lb. $1.30 each.
Hub Lightning, 15 lb. 55c; 25 lb 70c each.
Tin Cans.
Chamellene Graphite.
1 lb. per gross.....$9 50
3 lb. per gross.....25 00
5 lb. per gross.....37 00

GRIDDLES.

Soapstone.....33⅓%

GRINDSTONES.

Family.
Inches..... 6 8 10
Per doz.....$7.25 9.75 12.00
Loose.
Per ton.....$20 00@$21 00
Mounted.
Ball Bearing..... 1 2 3
Each.....$3.15 3.00 2.85
Common Bearing 1 2 3
Each.....$3.00 2.80 2.65

GUN WADS
(See Ammunition.)

HAFTS, AWL.

Brad.
Common.....per doz. $0 19
Peg.
Common..... " 22
Patent, plain top..... " 47
Patent, leather top... " 82
Sewing.
Common..... " 22
Patent..... " 82

HALTERS.

Jute Rope.....per doz. $1 10
Sisal Rope..... " 1 85
Web..... " 2 00
Leather, rope tie..... " 8 50
Leather, leather tie..... " 11 50

HAMMERS, HANDLED.

Blacksmiths' Hand.
Plumbs.....60&5%
Engineers'.
Plumbs.....60&5%
Farriers'.
Plumbs.....40&10%
Machinists'.
Plumbs.....60&5%
Nail.
Plumbs.....40&7½%
Quaker City.....per doz. $3 50
Cast..... " 1 15
Maydole's.....30&5%
Riveting.
Plumbs.....40&12½%
Shoe.
Cast.....per doz. $0 90
Tack.
All Iron.....per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid..... " 1 55
Magnetic..... 1 2 3
Per doz.....$0.70 .80 1.00
Magazine.. .....per doz. 4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs .....80&5%
5 lbs. and over.....80&10%
Masons'.
Single and Double Face.....80&5%

HANDLES.

Auger.
Common Assorted....per doz. $0 50
Pratt's Adjustable, Nos. 1 & 2, per doz..... 4 50
Ives' Adjustable.....per set, 1 35
Axe.....40%
Chisel.
Hickory, Tanged Firmer, Assorted, 33c; Large, 38c per doz.
Hickory, Socket Firmer, Assorted, 27c; Large, 30c per doz.
Applewood, Tanged, Firmer, Assorted, 29c; Large, 33c per doz.
Applewood, Socket, Firmer, Assorted .....per doz $0 24
Coal Pick.....40%
Drifting Pick.....40%
File, assorted, 13c; Large, 16c per doz.
Hammer.
Adze Eye.....per doz. $0 40
Blacksmiths'..... " 40c@70c
Machinists'..... " 45c@70c
Hatchet..... " 40
Hay and Manure Fork.....30%
Hoe and Rake.....30%
Plain.....per doz. $0 75
Varnished..... " 80
Screw Driver.
Assorted..... " 37
Large..... " 48
Shovel and Spade.....33⅓%

HANGERS.

Barn Door.
U. S. Rolled Bearing.....60&10%
Matchless.....50&10%
Storm King.....60%
World's Best.....50%
Wagner's Adjustable.....70&10%
Warehouse Big Twin.....25%
Conductor P.
Griffin.....70&10%
Iwan's Perfection.....50%
Eaw Trough.
Baker's.....per gro. $3 25
Imperial.....20%
Wire.....33⅓%
Parlor Door.
Acme.....per set, $3 75
Ives' Improved..... " 2 60
Lane's Standard..... " 3 50
Lane's New Model.... " 3 10
Le Roy Noiseless..... " 4 00
Richards'.....40-10&5%

HASPS.

Hinge, Wrought.....40%
With Staples—See Staples.

HATCHETS.

Crescent.....50&10%
Cast Claw.....per doz. $1 10@1 35
Cast Shingling.... " 1 25
Germantown.....30%

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wensleman's No. 1.....per doz. $9 00
Wensleman's No. 2..... " 9 00

HINGES.

Blind.
Clark's Gravity ... per doz. sets, 95c
Parker's.....65%
Shepherd's Noiseless, for Wood Casing.....per doz $1 95
Gate.
Clark's..... 1 2 3
Hgs & Ltch.. doz. $2.50 3.25 4.25
Hinges only... " 2.00 2.50
Latches only . " .90 .90
Knuckle.....per doz prs. $6 00
Leed's..... " sets 6 75
Superior..... " prs. 9 00
Spring.
Banner.....50%
Chicago.....25&5%
Columbia Dbl. Acting....40&10&5%
Gem.....25%
Ideal Detachable.....per gro. $11
Matchless.....40%
New Idea.....per gro. $8 00
Oxford.....20%
Wrought Iron.
New Lists .....
Light Strap Hinges.....60%
Heavy Strap Hinges.....60, 10&10%
Light T Hinges.....55%
Heavy T Hinges.....45%
Extra Heavy T Hinges.....60%
Screw Hook and Strap.
6 to 12 in.....per 100 lbs. $4 50
14 to 20 in..... " " 4 25
22 to 36 in..... " " 4 00
Screw Hook and Eye.
⅝ in.....per 100 lbs. $6 75
⅞ in..... " " 7 75
⅛ in..... " " 9 75

HOES.

Garden .....70&10%
Grub.
Extra.....70%
Hazel.....per doz. $5 00
Ladies' and Boys'.....75%
Mortar.....75&10%
Planter's Eye.....62½%
Weed.....75&15%

HOLLOW WARE—See Ware.

HOOKS.

And Eyes.
Brass.....60%
Iron.....70%
Awning.....per gro. 80&10%
Bell.
Brown's.....70&5%
Jones'.....65&5%
Bench.
See Stops, Ben

Box.
Inch..... 5 7 10 12
Per doz.....$1.90 2.10 2.25 2.65
Hamason & Beckley's..per doz. $2 50
(See Goods, Bright Wire.)
Bush.
Common Axe Handle. per doz. $7 00
Chain.
Inch..... ¼&⅜ ½ 7/16 ½
Per 100...$7.60-8.10 9.75 11.50 12.60
Clothes Lines.
Japanned .....per doz 22c@24c
Galvanized..... " 40c
Coat and Hat
Cast Iron . . . . per gro. 72c@$1 50
Gem Wire.....70%
Conductor.
Malleable.....25%
Wrought.....20%
Corn.
Common, rivetted, painted red.....per doz. $2 25
Little Giant..... " 3 25
Gate.
See Goods, Bright Wire.
Grass.
Common. Nos..... 2 3 1
Per doz.....$1.50 1.60 1.70
German.....per doz. 1 75
Gypsy..... " 2 50
Hammock.
With plate.....per dos. 50
With screw..... " 45
Lambrequin, or Drapery, per gro. .21c
Picture.....50%@50&10%
Potato and Manure.....70&12½%
Screw.
Brass.....80&5%
(See Goods, Bright Wire.)
Seat Spring.....per lb. 5½c

HOOPS, TUB.

Elastic . . . per case of 2 doz.... $1 50

HOSE, GARDEN.

	Coupled, per ft.
Velvet, 3 ply-¾" guar. press	7½c
Eclipse, " " "	8½c
Diamond " " "	10c
Jeanette " " "	13c
Pennsylv'a " " "	16c

COTTON COV. RUBBER HOSE.

High Grade-¾"-guar. press.	400 lbs.	11¼
Special " " "	300 "	9½c
Leader " " "	100 "	7½c

HUSKERS.

Boss.
Nos..... B BB E 200
Per doz.....$2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro.....$5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro.....$3.50 9.00 24.50
Nos..... 60 50 64 68
Per doz.....$2.15 2.15 .85 1.45
Brinkerhoff's.
Per gro.....$14 40

IRON.

See Metals.—First column.

IRONS.

Curling.
C.....per doz. $0 40
B..... " 50
A..... " 58
Princess..... " 70
Thelma..... " 1 25
Pinking..... " 70
Plane.
Wood Bench.....20&5%
Sad.
Charcoal.....per doz.$11 00
Common, polished, per 100 lb. 3 75
No. 70 Asbestos.....$1 20 net
No. 100 " ..... 1 30 net
Common, nickel plated, 5 25
Chinese Polishing.....per doz. 7 40
Laundry, No. 1..... " 5 75
Laundry, No. 2..... " 6 25
Mrs. Pott's
No. 50 J, Enterprise, per set 93
No. 55 J, " " 90
No. 50 T, " " 1 00
No. 55 T, " " 96
Tailors' Sad.....per lb. 5½
Tailors' Geese..... " 5½
Tuyere.
Single Duck Nest.....per doz $5 25
Double Duck Nest . . " 6 25
Sutton.....each.... 2 60

JACKS.

Locomotive.....70%
Wagon.
Miller.....50%
Oliver,
Nos..... 0 00
Each.....$0.60 $0.80

Standard.
Nos..... 1 2
Each.....$0.60 1.00
Wilcox.
Nos..... 1 2 3
Each..... $0.85 1.20 2.90

KETTLES.

Brass.....15%
Cauldron.....40&5%
Copper.....per lb., 27c
Maslin.....65%
Sugar.....50%

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade, doz.$3 85
California..... 3 40
Cooper's Hoop.....15%
Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's..... " 3 00
Woodford..... " 2 25
Drawing.
Standard.....70%
Adjustable.....15%
Barton's Carpenters'.....10%
Folding Handle.....25&5%
Hay.
American, Sickle Edge...doz. $10 50
Canton, Sickle Edge..... " 8 25
Heath's..... " 8 00
Iwan's, Sickle Edge..... " 9 50
Iwan's, Impv'd Serrated . " 10 00
Lightn'g, Holt's Genuine. " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Poin'.. " 8 50
Hedge.
Challenge.....per doz. $6 00
Disston's..... " 3 75
Mincing.
Common, Single..... " 40
Common, Double..... " 50
Streeter, 4-Blade..... " 1 30
Streeter, 6-Blade..... " 2 00
Putty.
Common.....per doz. $0 60@1 00
Lander'r..... " 1 40@1 75
Scraping.
Beech Handle..... 75@1 00
Lander's..... 5 25@6 00

KNOBS.

Door.
Mineral.....per doz. $0 80
Porcelain..... " 90
Jet..... " 90

LADDERS.

Common Long.
Per ft.....9c@14c
Extension.
Per ft.....14c
Step.
Common, per ft.....7½c
Common, with Shelf, add 10c.
Keystone.....15c
Triumph, per ft.....20c

LANTERNS.

Bull's Eye Police.
3 -in. Flash Light....per doz. $6 00
2¾-in. Regular..... " 4 90
3 -in. Regular..... " 5 50
Tubular.
Dietz & Hanes'. . .....net prices.

LEADERS, CATTLE.

Nos..... 1 2 3
Per doz..... $0 55 .70 2.75

LEATHER, LACE.

Cut.....33⅓%
Sides.
Ex. Quality ..... per sq. ft., 27

LEATHERS, PUMP.

Valve and Plunger.....10%

LIFTERS.

Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
Alaska, Nickeled. " 5 00
Transom.
Payson's.....50%

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos.... 4 6 7 8 9
Gross...$1.50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos..... 0 1 2 3
Per doz.....22c 25c 31c 35c
Mansons', in 100-ft. hanks...doz. 80c
Clothes.
60-ft. Jute.....per doz. $0 95
72-ft. Jute..... " 1 15
60-ft. Sisal..... " 1 40
72-ft. Sisal..... " 2 15
50-ft. Cotton..... " 1 15
50 ft. Braided Cotton. " 25

LINING, STOVE.

Bricks.....per crate. 42c

MACHINES.

Boring.	Without Augers	With Augers
Angular.....per doz.	3 00	4 40
Upright..... "	2 60	4 00
Leather Riveting.		
Chicago, Pomeroy....per doz.		$9 00
Excelsior..... "		2 00
Handy..... "		2 00
Little Giant..... "		3 00
Pony, Pomeroy..... "		7 20
Washing.		
Winner.....per doz.		54 00
Keystone..... "		54 00
U. S. Steel..... "		60 00
Advance, f.o.b.Chicago "		24 50

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small....per doz. $5 00
" " Medium. " 5 75
" " Large... " 7 00
Round Hickory..... " 2 25
" Lignumvitæ... " 4 00
Square Hickory..... " 2 25
" Lignumvitæ... " 4 50
Tinners'.
Applewood..... " 1 70
Hickory..... " 1.00@1 50
Hickory Sheet Iron... " 1 50

MATS.

Door
National Rigid.....50, 10&5%
Acme Steel Flexible.....33⅓%
Stove.
No. 2.....per gro. $3 25
No. 1..... " 3 50
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. 1 10
No. 2 Asbestos Toasters, with ring.....per doz. 60

MATTOCKS.

Plumbs.....65&10%
Extra.....60%

MAULS.

Iron, lbs..... 10 13 16 18
Per doz.... $4.00 4.50 5.25 5.60
Wood face, lbs..... 10 12 14
Per doz..... $5.00 5.50 6.00
Wood Choppers'.
Lake Super'r & Oregon Pat. 75&10%

MEASURES.

	½ pk.	1 pk.	bu.
Galvanized, per doz.	$2.25	3.00	3.85
Japanned.. "	1.75	2.45	3.15

MICA.

First Quality.....40&5%
Second Quality.....50&5%

MILLS, COFFEE.

Enterprise.....25%
Parker.....50&5%
Arcade.....40-12½&2½%

MITRE BOXES.

See Boxes.

MOPS.

Erie.....per doz. $3 15
Handled Cotton.
Pounds..... ½ 1 1½ 2
Per dozen....$2.00 2.35 2.65 3.25

MOWERS, LAWN.

Gladiator—B. B.
Inches..... 16 18 20
Each..... 6.50 7.25 8.00
King Universal—B. B.
Each..... 5.25 5.75 6.00
Inches..... 14 16 18
Big Giant..... 3.50 3.90 4.25
Little Giant..... 2.50 2.65 2.75

NAILS.

Cut Steel.....rates, $2 50
Cut Iron..... 2 60
Wire.
Small Lots..... $2 28
Carload Lots..... 2 18
Cement Coated..... 2 30
Horse Shoe.
Ausable.....55&5%
Capewell.....15%
Perfect.....55&5%
Putnam.....20&5%
Star.....35&5%
Clover Leaf .....per lb., net, 10½c
Picture.
Brass Heads.....25%
Brads.....85%
Furniture.....15%

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized beforeweaving .80,10&2½%
Galvanized after weaving.....80&7½%
Cut Pieces.....65&5%

NIPPERS.

End Cutting.
Stubb's Pattern. Inches 5½ 6
Per dozen..... $4.00 4.25
End and Diagonal Cutting.
Swedish Side.....75%
Hoof.
Heller's.....40&10%
V. & B.....55&5%

NOZZLES.

Hose.
Genuine Gem.....per doz. $3 90
Magic..... 3 60
Mystic..... 3 00

NUTS, HOT PRESSED.

Square Blank.
In ¼ 5/16 ⅜ 7/16 ½ ⅝
lb 9½c 8c 6½c 5½c 5½c 5c 4½c
Square Tapped.
In. ¼ 5/16 ⅜ 7/16 ½ ⅝ ¾
lb. 12½c 10½c 8c 7½c 6½c 6½c 6c
For 5-lb. boxes add ½c per lb. to above prices.

OILERS.

Chase Pattern.
Brass and Copper.....60%
Zinc.....60%
Engineers'.
Cannon.....55%
Tin . . . . . per doz. $2 00@$2 25
Machine.
Common.....per doz. $0 58
Copper Plated Steel... " 1 00
Malleable Iron.....60, 10&5%
Japanned.....65@75c

OPENERS.

Box.
Inches..... 10 12 14
Flat.....per doz. $2.85 3.60 4.15
Round.... " 2.10 2.25 2.75
Can.
Delmonico .....per doz $1 30
Never Slip..... " 65
Crate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Combination.....per doz. 11 00
Economy..... " 4 65
Family..... " 9 75

PADLOCKS.

Standard Wrought.....75&5%
Champion.....50%
Eureka.....40, 10&5%
Yale.....60&5%

PAILS.

Cream.
14-qt , without gauge, per doz. $2 50
20-qt., " " " 3 00
20-qt., with gauge.... " 3 50
Sap.
10-qt., Galvanized, per 100....$13 00
12-qt., " " 14 50
14-qt., " " 16 25
16-qt., " " 17 75
10-qt.,IC Tin..... " 10 25
12-qt., " .... " 11 75
14-qt., " .... " 13 00
10-qt.,IX Tin.... " 12 75
12-qt., " .... " 16 00
14-qt., " .... " 17 00
Stock.
Galv'd, qts. 14 16 18 20
Per doz..... $3.75 4.00 4.75 5.25
Water.
Galvanized... qts. 10 12 14
Per doz..... $1.95 2.20 2.45
Wood.
Cable, 2-Hoop.....per doz. $1 70
Cable, 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop.... " 1 00
Standard, 3-Hoop.... " 1 80

PANS

Dripping.....60&5%
Fry
Common .....75&10%
Acme 70%
Roasting.
Paxton,
Nos..... 1 2 3 4
Per doz.... $4.75 5.75 6.50 7.50
Neverburn . . 4.00 4.50 5.50 6.00
Savory, No. 200.....per doz. $8.00

PAPER.

Building.
Plain.....per 100 lbs. $1 25
Tarred..... " 1 35
Tarred Felt..... " 1 65
No. 20, Red Rosin....per roll. 40
No. 30, Red Rosin.... " 55
Sand and Emery.
Star..... low list, 50%
B. & A.....50%
Wrapping.
Drab Fiber.....per lb. $0 06
Rag..... " 0 00

PARERS.

Apple.
Bay State.....per doz. $13 00
Turntable..... " 9 00
White Mountain..... " 5 00
Reading..... " 7 00
Potato.
Goodsell's Saratoga, 10½ in., doz. 6 50
Goodsell's Saratoga, 5 in., doz. 5 50

PICKS.

Adze Eye Ore.....70%
Drifting and Poll Picks.....70%
Plumbs, Railroad.....70%
Surface.....70%

PINCERS.

Carpenters', cast steel.

Inches	6	8	10	12
Per doz.	$2.00	2.60	2.95	3.75

Blacksmiths'.....45%
Heller's.....40%

PINS.

Clothes.
Common.....per box of 5 gro $0 52
Hoyt's..... " " 31
U. S..... " " 70
Picket.
Fluted, 15-in.....per doz. $0 70
Fluted, 21-in..... " 1 60
Spiral..... " 1 90

PIPE.

Conductor.

	Gal. Steel	Charcoal
L. C. L. to Dealers:—		
Eastern	70&10%	50&10&2½%
Pittsburgh	75&10&5%	60%
Central	75&10%	60%
Northwestern	75&7½%	60%
Western	70&12½%	50&12½%
Tennessee	70&10%	50&12½%
Southern	70%	50&12½%
Southwestern	70%	50&5%

Terms 60 days; 2% Cash 10 days.
Factory shipments generally delivered.

Lead.
Full coils .....per lb. 7½c
Cut coils..... " 7½c
Stove

Acme—Inches	5	6	7
Smooth, per jt.	8½c	9½c	10½c
Planished, "	32 c	33 c	43 c
Peerless—Smooth,	7½c	8 c	9½c
Polished	14½c	15½c	18 c
Planished	28 c	31 c	35½c
Made-up—Inches	5	6	7
Smooth	7½c	8 c	9½c

7 to 6 in. Smooth Tapers, pr jt...13c
6 in. Smooth T's..... " 27c
7 to 6 in. Planished Tapers.....45c

Yale Patent Lock Pipe—Stove.

	5"	6"	7"	7" to 6"
	—Cents—			
Battle Axe Blue	7	7½	9½	10½
Can't Slip "	7½	8½	10	11
Peerless "	7½	8½	10	11
Duplex "	10	11	13	14
Yale, Rus. Fin	15	16	17	18
Duplex Planished	29	31	37	38
Galvano, Gal	15	16	17	18

If wanted made up, add per joint or grooved, 1c; riveted, 1½c. Crating made-up pipe extra.

Wrought Iron Gas Pipe.
⅛@¼-in., black.....discount, 60%
⅛@¼-in., black..... " 60,10&5%
⅜-in. to 6-in., black... " 70%
7-in. to 12-in., black... " 62½%
⅛@¼-in., galvanized.... " 42%
⅛@¼-in., galvanized.... " 50%
⅜-in. to 6-in., galvan'd " 57½%
7-in. to 12-in., galvan'd " 45%

PLANES.

Sargent Iron Bench.....60%
Stanley Iron Bench .....25&5%

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Giant, Button's—80% off list.
Cutting
Bernard's.....30%
Lodi.....50%
Upper End and Diagonal Cutting
Swedish Side.....70%
Utica Drop Forge & Tool Co....60%
Fencing.
Black Bull.....per doz. $8 2
Farmers' Choice.....per doz. $8 0
Russell's..... " 8 2
Flat and Round Nose.
Bernard's.....30%
German.....65%
Lodi.....50%
Paragon.....50%
Gas.—Inches.. 7 8 10 12
Per doz..... $3.00 3.50 4.50 5 5

Tinners'.
Hollow.....40%
Solid.....each, 5½c

PLUMBS AND LEVELS

Common .....60&10&10%
Cook's.....40%
Davis' Iron.....25%
Davis' Inclinometer.....15%

POINTS

Drive Well Points.....75&5%

POKERS, STOVE.

Wr't Steel, str't or bent, per doz. $0 55
Wr't Steel, wood hand'ls " 80
Nickel Plated, coil hand'ls " 65

POKES, ANIMAL.

Cracker Jack, wr't steel, per doz. $4 50

POLISH.

Metal.
White Silk, half pints, per doz. $2 00
White Silk, 6-oz. cans, per doz. 1 00
Shoe.
M. C. D.....per doz.....36c@50c
F. C. O..... " 40c
T M..... " .55c@$1 75
Imperial.....per gro 5 00
Stove.
Black Eagle, 1-lb. cans, pr. gr. $15 00
Black Silk—
5-lb. pail..... $0 70
Paste, 5-oz. cans....per doz. 75
Paste, ½-lb. cans.... " 1 05
Liquid, ½-pt. cans... " 1 05
Liquid, 6-oz. cans... " 75
Black Jack, ¼-lb. cans. " 9 25
Dixon's Carb. of Iron. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1-qt. per doz. $1 05
Square, 1½-qt..... " 1 15
Square, 2-qt..... " 1 35
4-qt..... " 3 75

POTS, FIRE.

Clayton & Lambert's, each, $4 75@6 25
Gate City.....each, 6 25
Gem.....each, $6 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co.....25%

PRIMERS

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10%
Water's Improved..... " 80%

PULLERS.

Corn.
Daisy..... each, $3 10
Phoenix..... " 1 40
Quick and Easy..... " 2 70
Nail.
Giant.....per doz. 10 50
Giant Pattern..... " 6 00
Jumbo..... " 9 00
Tack—Giant..... " 40

PULLEYS.

Awning—Jap'd.....60%
Clothes Line.....50&10%
Hay Fork.
Iron Wheel, 5-in.....per doz. $1 75
Wood Wheel, 6-in.... " 1 75
Wood Wheel, 6-in., pass knot, ...per doz. 2 15
Hot House—Jap'd.....50&10%
Screw—Jap'd.....60%
Side—Jap'd.....50&10%
Sash.
Common.....per doz. $0 16
Common-Sense, 2-in.. " 20
Empire Pattern, 2-in.. " 20
Ideal..... " 20
Steel..... " 25

PUMPS.

Pitcher Spout.

Nos.	1	2	3	4
Each	$1.00	1.15	1.30	1.70

Spray.
Blizzard.....per doz. $14 50
Cyclone, tin..... " 3 40
Cyclone, copper..... " 6 75
Daisy..... " 9 00
Little Giant.....each,... 2 25

PUNCHES.

Conductors'.
No 22.....per doz $2 2
Machine.....per lb 19
Saddlers'.
Common .....per doz 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 lbs. 2 35

RAIL.

Barn Door.
Matchless, 1-in..... 3 c
Matchless, 1½-in..... 3½c
Storm King..... 4 c
Sliding Door.
Painted steel.....per ft. 4½c
Bronzed wrought iron...per ft. 8½c

RAKES.

Coal or Wood.....per doz. $5 20
Garden.
Steel.....70%
Steel, bow.....70%
Malleable iron, heavy.....60&10%
Hay.
Wood.....$1 50@$2 00
Lawn—Wood.
XXX.....per doz. $3 00
Automatic..... " 5 25
Lawn Queen..... " 2 75
Jumbo, 36 teeth..... " 5 25

RASPS—See Files.

RAZORS.

Bo-ras-ic.....50%
Red Devil.....50%
Tree Brand.....50%

REGISTERS.

(All Sizes)

Japanned, Bronzed and Plated...70%
White Porcelain Enameled...50&10%
Solid Brass and Bronze Metal....40%
Single Valve (Baseboard and Sidewall).....70&10%

REGISTER FACES

Japanned, Bronzed and Plated
4x6 to 14x14.....70%
14x14 to 38x42.....75&10%
Heavy Round Gratings.....75&10%
White Porcelain Enameled...50&10%
Solid Brass or Bronze Metal.....40%

RINGS.

Bull.

Copper	2½ in.	3in.
Per doz.	$1 10	$1 40
Rea's Improved Self-Piercing copper, pr doz	2 00	....
Steel, per doz.	85	95
Nickel plated	1 35	....

and Ringers—Hog.
Blair's Rings.....per doz. $0 58
Blair's Ringers..... " 75
Brown's Rings..... 50
Brown's Ringers..... " 80
Champion Ringers.... " 1 60
Hill's Ringers..... " 70
Hill's Ring, boxes.... " 47
Major Rings..... " 60
Perfect Ringers..... " 95
Wolverine Rings..... " 1 40
Wolverine Ringers.... " 80
Fruit Jar.
White.....per lb.....30c
Key.
Split, round.....per doz. $0 17
Split, square..... " 32
Ball, round..... " 32

RIVETS.

and Burrs.
Copper Belt.....40%
Coppered Iron.....60&10&5%
Tinners'.....60&10%
Hame.....per lb. $0 10
Slotted Clinch per doz 40c@45c
Tubular
Nos 1 and 2 assorted sizes, doz, 45c

RIVET SETS

See Sets.

ROPE.

Cotton.
¼, 5-16 in. Com on reels, per lb. 11½c
¼, 5-16 in Com. in coils.. " 12 c
¼, 5-16 Imperial in coils.. " 21 c
Sisal.
1st Quality ..... 12 c
Hardware Grade, rates, per lb...10 c
Pure Manila.
1st quality.....per lb. 15½c
Hardware Grade, rates... " 14½c

RULES.

Boxwood.....50&10%
Ivory.....

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Disston's.....25%
Jackson's.....25%
Butchers'.
Disston's.....30%
Circular.
Disston's.....50%
Hiles'.....50&10%
Compass.
Common.....per doz $1 35@1 60
Disston's .....%25
Cross-Cut
Disston's.....45%
Dehorning.
Disston's.....per doz. $5 75
Hack.
Disston's.....25%
Keystone.....30%
Hand and Rip.
Brown's.....30%
Disston's No. 7.....30%
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120 (new list).....25%
Keystone.....30%
Enterprize, hand.....per doz. $5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50
Keyhole—Disston's.....25%
Kitchen.
Sterling 25%
One Man.....50%
Panel
Brown's 30%
Disston's No. 7.....30%
Disston's No. D100.....25%
Pruning.
Brown's 25%
Disston's 25%
Wood
Common.....per doz. $4 50
Clover Leaf..... " 6 00

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools.

SAW FRAMES.

Common, plain.....per doz. $1 25
Common, painted..... " 1 70

SCALES.

Counter.
Pelouze.....40&10%
Platform.
Osgood.....50%

SCOOPS.

Grain.
½-bu. "Hercules".....per doz. 13 70
1-bu. "Hercules"..... " 15 00

SCRAPERS.

Box.
Triangular.....per doz. $4 00
Cabinet.
Cast Steel . . . . per doz , 60c@75c
Road.

Cubic ft.	7	5	3
Without run's, ea.	$4.00	3.75	3.50
With runners, ea.	4.25	4.00	3.75

SCREWS.

Bench.

Iron, in	1	1½	1½
	$3.50	4.00	4.75

Wood, white maple...per doz. $3 50
Hand—Wood.....10%
Hand Rail.....80&10%
Jack.....70&10&5%
Lag or Coach—all sizes, gimlet pointed.....75&5%
Saw—Centennial.

Nos	1	2	3	4	5	6
Per doz.	18c	20c	26c	30c	23c	25c

Wood.
F. H. Bright.....87½&5%
R H Blued.....85%
F. H. Jap'd.....82½%
F. H. Brass.....85%
R. H. Brass.....80%
R. H. Nickel Plated.....75-10%

SCYTHES.

Be Ve Be, grass.....per dos. $3 00
Clipper, grass..... " 8 25
Clover Leaf Dutchman. " 7 50
Honest Dutchman..... " 7 50
Be Ve Be..... " 7 50

SHAVING SETS.

Smith & Hemenway.....60%

SETS.

Nail.
Round, common.....per doz. $0 33
Square, common..... " 42
Octagon, common.... " 33
No. 5, square..... " 75
Cup point, knurled... " 75
Rivet.
Parmers'.....per doz. $1 20
Tinners'.....50&10%
Saw.
Aiken's Pattern.....per doz $3 50
Common Lever..... " 1 20
Disston's Monarch.... " 6 50
Disston's X Cut ..... " 12 00
German..... " 1 05
Leach's..... " 80
Nash's Hand..... " 3 15
Nash's X Cut..... " 4 20
Stillman's Lever..... " 1 30
Stillman's X Cut..... " 2 50

SHARPENERS, SKATE.

Diamond.....per doz $1 60
Smith & Hemenway 20%

SHAVES, SPOKE

Iron.....per doz $1 10@1 85
Wood ..... " 2 75@4 75
Bailey's .....50&5%
Goodell's 15%

SHEARS

Pruning
Buckeye, No. 1.....per doz $5 75
Buckeye, No. 2..... " 7 40
California Pat., 9-in.. " 3 20
California Pat., 10-in.. " 4 00
Draw Cut, No. 3..... " 13 75
Draw Cut, No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 2.10 2.90 2.80
Star.....per doz $4 00
Sheep—No BBA.
Inches..... 6 6½ 7
Reg. Grip.....$11.25 11.50 12.00
Nar. Grip.,doz.... 11.00 11.25 12.25
Tinners'—See Snips.

SHEAVES, SLIDING DOOR.

Common.
Inches..... 3 4 5
Per set..... $0.34 .42 .70
Hatfield's.
Per set..... $0.75 1.00 1.60

SHELLS—See Ammunition.

SHELLERS, CORN.

Union.....per doz. $6 75

SHIELDS.

Expansion Bolt Shields.....50&10%

SHOES.

Conductor.....60&10%

SHOT—See Ammunition.

SHOVELS AND SPADES

Coal.
No 2 Woodford.....per doz. $5 50
No. 182..... " 6 00
Ames' new list .....Discount, 12½%
Per doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye.... " " " 10 00
Mohawk.... " " " 9 00
Drain.
Iwan's Perfection.....50%
Railroad, etc.
Black Diamond.....per doz. $1 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ames, new list .....Discount, 12½%
Snow.
Per doz.....$1.65@$9.00
Alaska Steel.
D Handle.....per doz. $3 50
Long Handle..... " 3 00

SINKS.

Cast Iron.
Painted.....50&10%
Enameled, White.....50&10%
Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.

Champion.....33⅓%
German Pattern.....30&5%
Judd's Pattern.....50%

SNATHS.

Double Ring, Bush.....per doz. $6 00
Patent Loop, Bush..... " 5 75
Patent Loop, Grass..... " 5 50

SNIPS, TINNERS'.

Clover Leaf.....40&10%
National.....40&10%

SOLDER—See Metals.

SPRINGS, DOOR.

Perfect.
Nos..... 1 2 3 4
Per doz.....30c 35c 40c 54c
Reliance.
Per doz ... light, $1.25; heavy, $2 50
Safety.
Per doz ... light, 90c; heavy, $1 35
Torrey's.....per doz. $1 35
Warner's No. 11 13
Per doz..... ..... 75c $1 35

SQUARES.

Steel and Iron.....70&10%
(Add for bluing, $2.50 per doz., net.)
Miter.
Try.
Try and Bevel.
Try and Miter.
Fox's.....per doz. $5 75
Winterbottom's.....70%

SQUEEZERS, LEMON.

Common Wood.....per doz. $0 70
Porcelain Lined, Wood.. " 1 25
Boss, malleable iron.... " 1 20
Iron Frame, porc'n bowl " 1 90
Iron Frame, glass bowl . " 2 35
Little Giant, tin'd iron . " 4 00
Drum, japanned..... " 3 60
Drum, nickel plated ... " 4 50

STAPLES

Blind.
Barbed.....per lb ...9¼@9½c
Butter Tub..... " .....8 @8½c
Fence—less than carload.
Polished.....per 100 lbs. $2 30
Galvanized..... " 2 00
Netting.
Galvanized.....per 100 lbs. 4 00
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....80-10&10%
Extra heavy.....75&10%

STEELYARD.

Discount 25%.

STONES.

Axe.
Hindostan.....per lb 5½@7 c
More Grit..... " 9½c
Washita ..... " 17 c
Emery.....60%@60&5%
Oil—Mounted.
Arkansas Hard.....per doz.$23 00
Arkansas Soft..... " 15 50
Hindostan .....per lb 6½@6½
Oil—Unmounted.
Arkansas Hard.....per lb $2 05
Arkansas Soft ..... " 1 10
Lily White..... " 45
Queer Creek..... " 15
Ouachita..... " 38
Washita..... " 26
Sythe.
Black Diamond.....per gro. $8 00
Crescent..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille..... ..... " 7 00
Quinnebog..... " 5 00
Red End ..... " 3 75

STOPS, BENCH.

Hotchkiss'.....per doz. $3 50
Stearns'..... " 4 75

STOPPERS, FLUE.

Common.....per doz. $0 40
Crown..... " 45
Gem, flat, painted..... " 95
Gem, cor'd, decorated... " 70
Kirch's..... " 90
Perfect..... " 70@95
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards

STOVE POLISH—See Polish.

STRAPS.

Scoop.....per doz prs., $1 85
Shate..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's.....per doz. $3 90
Excelsior..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 30
King..... " 4 50
Wire.
N. S. Elwood's.....per doz. $6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety..... " 10 00
Star Lever..... " 6 25
Canton Tackle Block. " 9 50
Warner's ..... " 6 25

SWIVELS.

Malleable Iron.....per lb. $0 70
Wrought Steel.....per gro. 4 50

TACKS.

American Cut.....90&15%
American Wire.....85&20%
Bill Posters Cut.....90&20%
Glued Carpet.....90&10%
Tinned Carpet.....90&10%
Gimp.....90&10%
Upholsters' Cut.....90&20%
Upholsters' Wire.....90&10%
Double Pointed.....90%
Copper.....per lb. 32c
Canvas Nails.....75&5%
Clout Nails.....75&10%
Hungarian Nails.....80%

TAPES, MEASURING.

Asses' Skin.....40&10%
Bend Leather.....20%
Patent Leather.....20%
Lufkin's Steel.....25%
Lufkin's Metallic.....30%

TEE BEVELS—See Bevels.

THERMOMETERS.

Tin Case.....per doz. 80c@$1 25
Wood Back..... " $2.00@12 00
Glass..... " 12 00

TIES.

Bale.
Single Loop.....80&5%
All other kinds.....70%
Cow—See "Chains."

TOOLS, SAW.

Disston's Universal.....40%
Miniature.
Smith & Hemenway.....25%

TRAPS.

Fly.
Ballon.....per doz. $1 25
Harper's..... " 1 35
Game.
Newhouse.....40&10%
New Victor.....70&10%
Mole.
Reddick's.....per doz. $6 00
Mouse and Rat.
Wood Choker ..per doz. holes $0 13
Tin Choker .... " " 75
Delusion.....per doz. 1 15
Marty Rat..... " 6 25
Marty Rat Imitation. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 00
Hold-em, wire rat.... " 3 75

TROWELS.

Brick.
Clover Leaf.....30%
Brade's.....15&5%
Disston's.....30%
Rose's.....20%
Plasterers'.
Clover Leaf.....40%
Disston's.....25%
W. & McP.....25%

TRUCKS.

Bag.....each, $2 75
Handy..... " 1 85
Warehouse.....50&10%
No..... 1 2 3
Half Ironed..... $3.00 3.85 5.50
Full Ironed..... 3.45 4.50 6.45

TUBS, WASH

Standard, Wood. Ex.
Nos..... 3 2 1 large
Per doz.....$5.00 6.00 7.00 9.50
Dowell.
Per doz..... 5.35 6.35 7.00 9.50
Cedar.
Per doz..... 6.10 7.10 7.90 10.80
Indurated.
Per doz..... 8.55 9.45 10.80 13.50
Galvanized.
No..... 1 2 3
Per doz.....$6.00 6.75 7.75

TWINE.

Per lb.
3-ply Cotton Wrapping 25c
4 " " " 25c
" " Extra Wrapping.....27c
4 " " " Hvy. Wrapping 25c
4 " " Wrapping on tubes....27c
3 " " " " cones.....25c
4 " " " " " 25c
India Hemp, ½-lb. balls 19c
" " ½-lb. " 18c
" " ½-lb. " .....doz. 75c
2-ply Jute, ½-lb. " 14c
3-ply Jute, ½-lb. " 13c
Jute Wrapping, ½-lb. balls.....14c
Jute Wool, 1-lb. balls.....9½c
Seins.
Nos..... 9 12 15
Soft.....per lb 26½ 26 25
Med..... " 26½ 26 25
Hard..... " 27 26½ 26
Staging, ½-lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " " 23c
3-p y "B" in hanks 18c
4- " "B" " 18c
3 " "A" " 27c
3 " Silver Finish, in hanks...37c
Fodder or Lath.
130 strand.....6½c
200 strand.....—c

VISES.

Phoenix.....30%
Phoenix Oval Slide,
Inches..... 2½ 3 3½ 4½
Each..... $1.25 1.50 1.65 2.75
Parker's Parallel..... 20%
Parker's Victor..... 20%
Parker's Swivel Base..... 20%
Parker's Re-inforced 20%
Parker's X Series..... 20%
Parker's Combination 20%
No. 110, Bicycle..... " 31 50
No. 500, Royal..... " 32 50
No. 350, Universal..... " 28 00
No. 300, Novelty..... " 28 00
No. 310, Keystone..... " 28 00
No. 100, Rival..... " 28 50
Solid Box.....40&5%
Adams' Mechanics'.....each 2 50
Williamson's Universal.....60%

WARE.

Stove Hollow Ware.
Plain or Unground.....50%
Ground Ware.....45%
Enameled Ware.....33⅓%
Country Hollow Ware, per 100 lbs. $3 00
White Enameled Ware.
Maslin Kettles.....60&10%
Covered Ware.
Tin'd and Turn'd.....35&10%
Enameled.....45&10%
Glue Pots.
Tinned.....25%
Enameled.....30%
Enameled.
Cherry Blossom and Chrysolite..50%

WASH BOARDS—See Boards.

WASHERS.

Standard O G. cast iron . . .per lb. 2½c
Wrought iron in bulk, per lb.:
In. ½ ⅝ ¾ ⅞ 1
9c 6½c 5c 4½c 4½c 4½c 3½c
Wrought steel in 5-lb. boxes, per lb.:
In. ½ ⅝ ¾ ⅞ 1
10 7c 6c 5½c 5c 5c 4½c

WASHING MACHINES—See Machines.

WEDGES.

Ax.....per doz. $0 30
Galling.....per lb. 10¼
Saw..... " 8½

WEANERS.

Calf.
Fuller's, per doz. ....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 00

WEIGHTS.

Hitching.....per lb. 2½c
Sash—f.o.b Chicago....pr ton, 26 50

WHEEL BARROWS.

Common Railroad.....per doz. $17 00
Heavy Railroad..... " 24 00
Panama Steel Tray.... " 39 00
Klondike Steel Tray.. " 28 00

WHEELS.

Corundum.....70&10&5%
Emery.....75&5%
Well. Inches.. 8 10 12 14
Per doz..... $2.40 3.25 4.00 6.00

WIRE.

Barbed. Painted. Galv'd
Carloads .. per 100 lbs. $2.33 $2.63
Less than car " 2.43 2.73
Brass.
In coils.....20%
In 1-lb. spools, new list.....50%
Broom—Tinned . . . 60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%33⅓%
1-lb. spools, new list.....50&10%
Fence—Smooth.
Nos. 6 to 9, An'eal'd, pr 100 lbs. $2 30
Nos. 6 to 9, Galv'd.. " 2 60
Hair—New List.....50%
Market.
Bright, full bdles.....70&5%
Bright, broken bdles.....70%
Coppered, full bdles.....70%
Coppered, broken bdles.....65&10%
Tinned, full bdles.....75&5%
Tinned, broken bdles.....65&10%
Picture—In coils . . . . 80%@80&10%
In 5-lb. spools.....per lb.....25c
Plain—Small lots..... $2 10
Car lots..... 2 05
Small spools 5c per 100 higher.

WRENCHES.

Acme Standard.....60%
Alligator No. 1.....85cnet
Always Ready.....50%
Agricultural.....75&5%
Ellis Adjustable.....25%
Malleable "S".....per lb. 08c
Malleable..... " 08c
Stillson Pipe.....70%
Bemis & Call's:
Adjustable S, 40&5%; Adjustable S Pipe, 40&5%; Briggs Pattern, 40%; Combination Bright, 50%
Steel Handle Nut.....50&5%
Combination Black.....50&5%
Merrick Pattern.....50&5%
Double End Adj. S.....40&5%

WRINGERS.

No. 22, Guarantee....per doz, $32 50
No. 110, Guarantee.... " 32 50
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Kees Mfg. Co., F. D., Beatrice, Neb
Miller Lock Co., Philadelphia, Pa
Richards Mfg. Co., Aurora, Ill
Smith & Hemenway Co., New York, N. Y

Hardware Delivery Wagons
Sycamore Wagon Works, Sycamore, Ill

Hinges
Lawson Mfg. Co., Chicago, Ill

Hollow Ware
Avery Stamping Co., Cleveland, O
Sperry, D. R. & Co., Batavia, Ill

Horse Nails
Standard Horse Nail Co., New Brighton, Pa

Horse Shoes
American Steel & Wire Co., Chicago, Ill

Ice Cream Freezers
North Bros. Mfg. Co., Philadelphia, Pa

Iron Enamel
Nickel Plate Stove Polish Co Chicago, Ill

Kitchen Utensils
Atlantic Stamping Co., Rochester, N. Y
Avery Stamping Co., Cleveland, O
Enterprise Mfg. Co. of Pa., Philadelphia, Pa
Kinne Mfg. Co., Minneapolis, Minn
Lalance & Grosjean Mfg. Co., Chicago, Ill
Star Enameling & Stamping Co., Pittsburgh, Pa

Ladders—Shelf
Milbradt Mfg. Co., St. Louis, Mo

Lawn Mowers
Philadelphia Lawn Mower Co., Philadelphia, Pa

Lighting
Ideal Epworth Acetylene Co., Johnstown, Pa., Waterloo, Ia

Lighting Systems
Detroit Heating & Lighting Co., Detroit, Mich
Whitacre Mfg. Co., J. E., Rockford, Il

Lightning Rod
Foy, Edw. A. & Co., Cincinnati, O

Locks
Miller Lock Co., Philadelphia, Pa

Metal—Perforated
Harrington & King Perforating Co., Chicago, Ill

Metal Polish
Nickel Plate Stove Polish Co., Chicago, Ill

Metal Shingles
Canton Art Metal Co., Canton, O
Cortright Metal Roof. Co., Philadelphia and Chicago
Milwaukee Corrugating Co., Milwaukee, Wis
National Sheet Metal Roofing Co., Jersey City, N. J

Mica
Brauer Supply Co., A. G., St. Louis, Mo
Munsell & Co., Eugene, New York and Chicago

Miters
Whitacre, J. E. Mfg. Co., Rockford, Ill

Nails and Tacks—Copper
Hussey & Co., C. G., Pittsburg, Pa
Keystone Nail Co., Pittsburg, Pa

Nuts
Columbus Bolt Works, Columbus, O

Oil Stoves
Standard Lighting Co., Cleveland, O

Pails
Atlantic Stamping Co., Rochester, N. Y

Paints and Paint Specialties
Connors, Wm., Paint Mfg. Co., Troy, N. Y
Dixon, Jos., Crucible Co., Jersey City, N. J

Pencils
Dixon, Jos., Crucible Co., Jersey City, N. J

Perforated Metal
Harrington & King Perforating Co., Chicago, Ill

Pipe—Furnace
Excelsior Steel Fur. Co., Chicago, Ill
Meyer & Bro. Co., F., Peoria, Ill
Michigan Safety Furnace Pipe Co., The Detroit, Mich

Plungers
Berger Bros. Co., Philadelphia, Pa

Post Hole Diggers
Iwan Mfg. Co., South Bend, Ind

Powder
E. I. du Pont de Nemours Powder Co., Wilmington, Del

Pumps
Star Bucket Pump Co., St. Louis, Mo

Punches
Armstrong-Blum Mfg. Co., Chicago, Ill
Bertsch & Co., Cambridge City, Ind
Napanee Iron Works, Napanee, Ind
Niagara Machine & Tool Works, Buffalo, N. Y
Robinson Mfg. Co., J. M., Cincinnati, O
Weiss & Co., H., New York, N. Y

Putty—Stove
Connors, Wm., Paint Mfg. Co., Troy, N. Y

Radiators—Stove Pipe
Rochester Radiator Co., Rochester, N. Y

Rasps
Disston, Henry & Sons., Philadelphia, Pa
Carver File Works., Philadelphia, Pa

Razors
Smith & Hemenway Co., New York, N. Y

Registers
Excelsior Steel Furnace Co., Chicago, Ill
Ferrosteel Co., Cleveland, O
Henry & Scheible Co., Cleveland, O
Mueller, L. J., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis
Symonds Register Co., St. Louis, Mo
Tuttle & Bailey Mfg. Co., New York, N. Y

Rivets
Columbus Bolt Works, Columbus, O

Roasters
Lalance & Grosjean Mfg. Co., Chicago, Ill
Wheeling Corrugating Co., Wheeling, W. Va

Roofers' Supplies
Auld & Conger Co., Cleveland, O

Roofing—Iron and Steel
American Sheet & Tin Plate Co., Pittsburgh, Pa
Berger Mfg. Co., Canton, O
Burton Co., W. J., Detroit, Mich
Canton Art Metal Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburg, Pa
Friedly & Voshardt Co., Chicago, Il
Griffiths Charcoal Iron Mills, Washington, Pa
Inland Steel Co., Chicago, Ill
Merchant & Evans Co., Philadelphia, Pa
Milwaukee Corrugating Co., Milwaukee, Wis
Nat'l Sheet Metal Roof. Co., Jersey City, N. J
Tanner & Co., Indianapolis, Ind
Taylor Co., N. & G., Philadelphia, Pa
Wheeling Corrugating Co., Wheeling, W. Va
Willis Mfg. Co., The, Galesburg, Ill

Roofing Cement
Auld & Conger Co., Cleveland, O
Connors Paint Mfg. Co., The Wm., Troy, N. Y

Roof Paint
Dixon, Jos. Crucible Co., Jersey City, N. J

Rose—Wire
American Steel & Wire Co., Chicago, Ill

Rules
Lufkin Rule Co., Saginaw, Mich

Sausage Stuffers
Enterprise Mfg. Co. of Pa., Philadelphia, Pa

Saw Sets and Saws
Disston, Henry & Sons, Philadelphia, Pa
Smith & Hemenway Co., New York, N. Y

Scales
Osgood Scale Co., Binghamton, N. Y

Schools—For Sheet Metal Pattern Drafting
Gray's School, New York, N. Y

Screens—Perforated Metal
Harrington & King Perforating Co., Chicago, Ill

Screws
Columbus Bolt Works, Columbus, O

Screw Drivers
North Bros. Mfg. Co., Philadelphia, Pa

Shears
Bertsch & Co., Cambridge City, Ind
Napanee Iron Works, Napanee, Ind
Robinson Mfg. Co., J. M., Cincinnati, O
Wagner, C. De Witt, Cedar Rapids, Ia

Sheets—Black and Galvanized
American Sheet & Tin Plate Co., Pittsburgh, Pa
Berger Mfg. Co., Canton O
Eller Mfg. Co., Canton, O
Griffiths Charcoal Iron Mills, Washington, Pa
Inland Steel Co., Chicago, Ill
Tanner & Co., Indianapolis, Ind
Taylor & Co., N. & G., Philadelphia, Pa
Wheeling Corrugating Co., Wheeling, W. Va
Willis Mfg. Co., Galesburg, Ill

Sheets—Planished
American Sheet & Tin Plate Co., Pittsburgh, Pa
Berger Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Follansbee Bros., Pittsburgh, Pa
Griffiths Charcoal Iron Mills, Washington, Pa
Inland Steel Co., Chicago, Ill
Tanner & Co., Indianapolis, Ind
Taylor Co., N. & G., Philadelphia, Pa
Ward-Dickey Steel Co., Indiana Harbor, Ind
Willis Mfg. Co., Galesburg, Ill

Sheets—Steel
American Sheet & Tin Plate Co., Pittsburgh, Pa
American Steel & Wire Co., Chicago, Ill
Berger Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Griffiths Charcoal Iron Mills, Washington, Pa
Inland Steel Co., Chicago, Ill
Tanner & Co., Indianapolis, Ind
Taylor Co., N. & G., Philadelphia, Pa
Willis Mfg. Co., Galesburg, Ill

Sheet Metal Ornaments
Berger Mfg. Co., Chicago, Ill
Friedley-Voshardt Co., Chicago, Ill
Gerock Bros., Mfg. Co., St. Louis, Mo
Milwaukee Corrugating Co., Milwaukee, Wis

Sheet Metal Patterns
Gray's School, New York, N. Y

Shelf Boxes
Green & Co., A. H., New York, N. Y

Shelving
Heller & Co., W. B., Montpelier, O
Warren Mfg. Co., J. D., Chicago, Ill

Shovels
Avery Stamping Co., Cleveland, O

Siding
Milwaukee Corrugating Co., Milwaukee, Wis

Sifters
Stuber & Kuck, Peoria, Ill

Skylights
Burt Mfg. Co., Akron, O
Burton Co., W. J., Detroit, Mich
Canton Art Metal Co., Canton, O
Eller Mfg. Co., Canton, O
Milwaukee Corrugating Co., Milwaukee, Wis

Skylight Opening
Weiss, H. & Co., New York, N. Y

Slate Roofing
Auld & Conger Co., Cleveland, O

Slating Nails
Hussey & Co., C. G., Pittsburgh, Pa

Soldering Fluxes
Ruby Chemical Co., Johnston, Ohio

Squares—Machinists'
Disston, Henry & Sons, Philadelphia, Pa

Stampings—Sheet Metal
Avery Stamping Co., Cleveland, O

Statuary
Friedley-Voshardt Co., Chicago, Ill
Gerock Bros. Mfg. Co., St. Louis, Mo

Steel
American Steel & Wire Co., Chicago, Il

Store Fixtures
Heller & Co., W. B., Montpelier, O

Stoves and Ranges
Albany Foundry Co., Albany, N. Y
Belleville Stove & Range Co., Belleville, Ill
Chicago Stove Works, Chicago, Ill
Co-operative Fdy Co., Rochester, N. Y
Chicago, Ill
Danville Stove & Range Co., Danville, Pa
Foster Stove Co., Ironton, O
Germer Stove Co., Erie, Pa
Nye & Sons Co. A. T., Marietta, O
Ohio Stove Co., Portsmouth, O
Quality Stove & Range Co., Belleville, Ill
Ringen Stove Co., St. Louis, Mo
Simmons Hdw. Co., St. Louis, Mo
Smith & Anthony Co., Boston, Mass
South Erie Iron Works, Erie, Pa
Standard Lighting Co., Cleveland, O
Stove & Range Co., of Pittsburgh, Pittsburgh, Pa
Willard, Wm. G., St. Louis, Mo

Stove Mats
Stuber & Kuck, Peoria, Ill

Stove Patterns
Cleveland Castings Pattern Co., Cleveland, O
Cope Pattern, Geo W., Works, Detroit, Mich
Enterprise Pattern Wks., Detroit, Mich
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N. Y
Weller Pattern Co., Quincy, Ill

Stove Pipe
Excelsior Steel Furnace Co., Chicago, Il
Hemp & Co., St. Louis, Mo
Kinne Mfg. Co., Minneapolis, Minn

Stove Pipe Joints
Kinne Mfg. Co., Minneapolis, Minn

Stove Pipe Thimbles
Stuber & Kuck, Peoria, Ill

Stove Polish
Brauer Supply Co., A. G., St. Louis, Mo
Nickel Plate Stove Polish Co., Chicago, Ill

Stove Putty
Connors Paint Mfg. Co., Wm., Troy, N. Y
Dixon, Jos. Crucible Co., Jersey City, N. J

Stove Repairs
Brauer, A. G., Supply Co., St Louis, Mo.
Northwestern Stove Repair Works, Chicago, Ill
U. S. Stove Repair Co., Minneapolis, Minn

Sugar Kettles
Sperry, D. R. Co., Batavia, Il

Supplies—Stove Dealers'
Brauer, A. G. Supply Co., St Louis, Mo

Tacks—Carpet
American Steel & Wire Co., Chicago, Ill

Tapes
Lufkin Rule Co., Saginaw, Mich

Technologist
Hooper, C. N., Dubuque, Iowa

Telephone Wire
American Steel & Wire Co., Chicago, Il

Tin—Perforated
Harrington & King Perforating Co., Chicago, Ill

Tinners' Furnaces
Bernz, Otto, Newark, N. J
Clayton & Lambert Mfg. Co., Detroit, Mich
Meyer Fdy. & Mfg. Co., South Bend, Ind
Ringen Stove Co., St. Louis, Mo

Tinners' Tools
Armstrong, Blum Mfg. Co., Chicago, Ill
Auld & Conger Co., Cleveland, O
Berger Bros. Co., Philadelphia, Pa
Bertsch & Co., Cambridge City, Ind
Dreis & Krump Mfg. Co., Chicago, Ill
Lufkin Rule Co., Saginaw, Mich
Napanee Iron Works, Napanee, Ind
Niagara Machine & Tool Works, Buffalo, N. Y
Robinson Mfg. Co., J. M., Cincinnati, O
Wagner, C. Dewitt, Cedar Rapids, Ia
Weiss & Co., H., New York, N. Y

Tinplate
American Sheet & Tin Plate Co., Pittsburgh, Pa
Eller Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Merchant & Evans Co., Philadelphia, Pa
Taylor & Co., N. & G., Philadelphia, Pa
Wheeling Corrugating Co., Wheeling, W. Va

Tinware Trimmings
Berger Bros. Co., Philadelphia, Pa

Toasters
Kinne Mfg. Co., Minneapolis, Minn

Tools, etc.
North Bros. Mfg. Co., Philadelphia, Pa
Simmons Hdw. Co., St. Louis, Mo
Stanley Rule & Level Co., New Britain, Conn

Tools—See Carpenters' Tools
Tools—Linemen's
Smith & Hemenway Co., New York, N Y

Torches
Bernz, Otto, Newark, N. J
Clayton & Lambert Mfg. Co., Detroit, Mich

Trowels
Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Inc., Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa

Tubing—Heavy Tin
Dieckmann, Ferdinand, Cincinnati, O

Ventilators—Wooden
Wooden Ventilator Co., The, East Palestine, O

Ventilators
Burt Mfg. Co., Akron, O
Canton Art Metal Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Friedley & Voshardt Co., Chicago, Ill
Globe Ventilator Co., Troy, N. Y
Iwan Mfg. Co., South Bend, Ind
Merchant & Evans Co., Philadelphia, Pa
Milwaukee Corrugating Co., Milwaukee, Wis
Powers & Williams, Streator, Ill

Wagons
Sycamore Wagon Works, Sycamore, Ill

Washers
Columbus Bolt Works, Columbus, O

Washing Machines
Knoll, Jas. H., Reading, Pa
White Lily Mfg. Co., Davenport, Ia

Windows—Fireproof
Merchant & Evans Co., Philadelphia, Pa

Wire
American Steel & Wire Co., Chicago, Ill

Wire Goods
Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburg Steel Co., Pittsburgh, Pa

Wants and Sales

For paid Yearly subscribers THE AMERICAN ARTISAN will insert under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, business for sale, partners wanted, to exchange, etc. Not exceeding fifty words, the price to non-subscribers is one dollar, payable in advance. Those who respond to these announcements will please mention that they "READ THE ADVERTISEMENT IN THE AMERICAN ARTISAN."

BUSINESS CHANCES

PATENTS OFFICIAL copy "PATENT LAWS" United States sent on receipt ten cents stamps.
HUBERT E. PECK, Patent Attorney, 629 F. Street, Washington. D. C.

We will pay $25 to any one who will find us a good location for general hardware in a good country town, providing we locate there. Address S-100, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago, Ill. 12-3t

For Sale—First-class tin, sheet metal and furnace business, located in the best city in Southwest Texas. Doing a fine business and making money. Reason for selling, other business. Address S-98, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago, Ill. 12-3t

For Sale—Our 100 account McCoskey Register, with full set of books for same. Perfectly new; has never been used. A bargain for some one. Too small for my use, reason for selling. Address W. H. Robings, Brighton, Ill. 12-3t

$7,500 will buy a stock of general hardware, invoicing $8,500. Good reason for selling. Address S-99, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago, Ill. 12-3t

Wanted—A hardware or hardware and furniture store in Cobden, Illinois. One of the best locations in Southern Illinois. Address William's New Opera House, Cobden, Ill. 12-3t

For Sale or Rent—Tin shop, including plumbing and heating. A chance for an all around man who would like to get started. Address S-96, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago, Ill. 12-3t

For Sale or Trade—My stock of plumbing and heating goods, tin shop, furnaces and stock and roofing supplies; also two-story business and residence building, located in one of the best cities in Central Illinois. Will trade for good farm land or other property. Ill health the reason for selling. Address S-94, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago, Ill. 12-3t

For Sale—Plumbing establishment doing good business in a Michigan city of 15,000 inhabitants. Only four shops in city; lots of work and good wages, also good income. Will sell shop, tools and business very cheap. Address T-2, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago, Ill. 12-3t

For Sale—One No. 5 Oliver typewriter, good as new, for sale cheap if taken soon. Address Geo. A. Fleissner, Marshall, Minn. 12-2t

For Sale—Cash. Good, well-established, paying, up-to-date hardware business, with tinner's tools; growing town, in best section of Iowa. Will invoice about $6,000; annual sales $18,000 to $20,000. Old stand. Retiring on account of age. Address Joseph Johnson, Zearing, Ia. 12-3t

For Sale—Robinson brake, in good order. Address O. W. Davis, 221 East 35th St., Chicago, Ill. 11-3t

For Sale — Good second-hand Oliver typewriter, No. 3. Very reasonable. Address P O. Box 287, Whiting, Iowa. 11-3t

For Sale—Tin shop. Good location. Cheap. For further particulars, address O. W. Davis, 221 East 35th St., Chicago, Ill. 11-3t

For Sale or Exchange, for cash register, a No. 336 Commercial Register System; too small for our business. In fine condition. Cory & Schellenger Hardware Company, Fairmont, Minn. 11-3t

For Sale—The only hardware stock in Illinois town of about 1,200 people. Invoicing about $7,000. No implements. Address S-89, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago, Ill. 11-3t

For Sale—One complete set of tinner's tools in good condition. Everything that is needed in ordinary tin shop. Reason for selling—no use for same. Address S-88, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago, Ill. 11-3t

For Sale—Good hardware store and tin shop, in Braddock, Pa., doing a first-class business. Established twenty years. Will reduce stock to suit buyer. Reason for selling—death of proprietor. For particulars address Mrs. Mary E. Winter, Braddock, Pa. 11-3t

For Sale—$4,000 stock of hardware, stoves, tools, fixtures, etc. No dead stock. Best location. Cash business; money maker. Am in position to and desire to retire from business. A bargain. Big discount for cash. Investigate. Write or call on B. B. Myers, Nevada, Ohio. 11-3t

For Sale—My stock of hardware, stoves, paint, buggies, etc. Invoice about $4,000. Stock all new, nothing out of date or shelf-worn. Location the best in farming district in Northern Indiana. No bad accounts. Good proposition for the right party. Address S-92, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago, Ill. 11-3t

For Sale—In North Central Iowa, up-to-date strictly hardware stock of about $5,000; good town, fine country and territory; honorable competition. $15,000 annual sales. No need to lose a dollar on poor accounts. Mostly cash business. This is a bargain, a square deal and will bear close inspection. Going West. Address J. W. Leighton, Livermore, Iowa. 11-3t

For Sale—Clean, up-to-date stock of hardware, stoves, queensware, heating and plumbing goods, tinshop, tools and fixtures. Located in one of the best towns in Iowa. Will invoice about $5,000. Only hardware store in town. Parties looking for good location will find this will bear close inspection. No trade considered. Address S-81, care THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 10-3t

For Sale—Plumbing, heating, light, tin and pump business in good western Illinois town. $11,000 business in 1908. Small and well selected stock. Will also sell shop. Just the chance for hustler to be independent on small capital. Reason for selling, other interests. Address S-82, care THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 10-2t

For Sale — Old established hardware business, making money in central Wisconsin. Population of town, 1,000; stock, $7,500; large territory. Can rent building. Only two hardware stores in town. Plenty of work at good prices. Bargain for some one. Reason for selling, going west. Address S-53, care THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 4-8t

TINNER'S TOOLS.

For Sale—A good second-hand set of tinner's tools, reasonable. Will send list of pieces to inquiring parties. Address T. A. Vaughan, 229 W. Jefferson St., Decatur, Ill. 12-3t

For Sale—Robinson Improved Paint Roll Machine, for hand or power, 30" rolls. Good as new. Address Gateway City Steel Tank & Roofing Co., LaCrosse, Wis. 12-3t

For Sale—A complete set of tinner's tools and machines, in good condition. Will go cheap. Address G. E. Roberts, Box 20, Clinton, Wisconsin. 12-3t

Wanted.—Eight-foot Robinson or Keen brake. Must be in good condition and cheap. Address S-87, care THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 10-3t

HELP WANTED.

Wanted—A good, reliable all around tinner and sheet metal worker. Address John B. Wallig, 161 Market St., Kenosha, Wis. 12-3t

Wanted—A good tinner and furnace man at once. Steady work to a competent man. Address Holder-Athey Hardware Company, Bloomington, Ill. 12-3t

Wanted—Handy man around a tin shop and hardware store. One that can do some tin work and set up stoves, etc. Address E. J. Ketcham, West Duluth, Minn. 12-ufn

Wanted, At Once—A good, steady, all around tinner and furnace man. A good steady job will be given to the right man. Wages $3.25 per day. Boozers and wouldbe's need not apply. Address T-1, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago, Ill. 12-3t

Wanted, Tinner—Must be all around man, sober and a hustler. Permanent employment and good salary to right man. Address C. B. Lozier, 706 120th St., Chicago, Ill. 12-3t

Wanted, Immediately — A tinner with some knowledge of plumbing. We want a sober man, married preferred. Can give him a steady job and will pay what a man is worth. Apply to G. T. Mueller & Son, Columbus, Wis.

Wanted—A young man with some hardware knowledge who is ambitious to learn the details of specialty lines and office work, with the end in view of going on the road later. Address or apply to Room 404, 134 E. Lake St., Chicago, Ill. 12-3t

Wanted, At Once—Good all around tinner, under 35 years of age, hustler and agreeable to the trade. To one who takes an interest in his work I have a steady position in a good up-to-date small city. Must have fair education, honest and no boozer. To the right man there is a good future. Apply to H. G. Koons, New Philadelphia, Ohio. 12-3t

Wanted—At once, all around tinner and plumber; one who can do hot air and hot water heating preferred. Steady position by the year. Address S-95, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago, Ill. 12-3t

Wanted, Tinner — Capable of taking charge of work. If you want a good place to work in a good town, write at once to Ole Nelson, Mankato, Minnesota. 11-3t

Wanted—At once, two first-class union hot air furnace men. 37 cents per hour, eight hours per day. Address H. W. Kuehmer, foreman, with Frank Geele Hardware Co., Sheboygan, Wis. 11-3t

Wanted—An all 'round tinner and furnace man; one who can do some plumbing preferred. Must be a sober man. Address S-90, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago, Ill. 11-3t

Wanted—Experienced tinners and sheet metal workers. Permanent position for the right men. Write Barnes & Nuss, Company, Grand Forks, North Dakota, giving experience, age, whether married or single, and where last employed. 11-ufn

Tinners Wanted—Steady work. Address Mohr-Jones Hardware Co., Racine, Wisconsin. 10-3t

Tinner Wanted—Who is able and willing to do all kinds of tin work; some experience in plumbing, iron pump work, help set up farm machinery and clerk some. Steady job to right man. Give reference, nationality, experience, single or married man and wages wanted. Address F. A. Meacham, Edgerton, Minnesota. 10-3t

Wanted, Tinner—To assemble special tinware. Can make $15 to $20 per week. Light work and steady the year around. Address Box 38, Albany, Indiana. 10-3t

Tinners Wanted.—Steady work if competent. Address Powers & Williams, Streator, Ill. 10-3t

SITUATIONS WANTED.

Wanted, Position—By young man who understands plumbing and some heating. Permanent position preferred. Wages $2.25 per day. Address at once, S-93, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago, Ill. 11-3t

Wanted—Position as manager or first man in a good live hardware store. Have had ten years' experience and thoroughly competent. Position must have opportunity for advancement. D. C. Hull, 508 Walnut St., Waterloo, Iowa. 11-3t

Position Wanted—By young man of five years' experience at the tinner's trade. A willing worker. Can go ahead with the work and am willing to go any place. Not a boozer. Address S-91, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago, Ill. 11-3t

Wanted—By young married man of ability, position as tinner and plumber or clerk with some live western hardware firm. A-1 references as to ability and integrity. Address S-83, care THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 10-3t

"SIXTY ON ONE BUILDING"

Over 51 large textile mills have been equipped during the last two years with

BURT COMBINATION SKYLIGHT VENTILATORS

and each and every superintendent would give a good word for the good work they are doing. Burt Ventilators have the biggest "pull" of any ventilator on the market. They are strongly made of the best material and workmanship. They are furnished with metal or glass tops as desired, and are provided with patented sliding sleeve dampers, storm and dust proof, adjustable to any degree of opening by the patent sliding sleeve damper and fastener. It is not necessary to tie the cord to hook or post. The Burt patented damper never shuts out the light and Burts are in use all over the United States in all kinds of construction.

New 96-page catalogue showing fine illustrations of mills, factories, shops, foundries and residences where Burt Ventilators are in successful use will be sent if you write for it.

THE BURT MFG. CO., 650 Main Street, AKRON, OHIO

Largest Manufacturers of Oil Filters and Exhaust Heads in the World.

GEO. W. REED & CO., Montreal, Sole Manufacturers of "Burt" Ventilators for Canada.

Glass Top Burt Ventilators are also made up to and including the 72-inch size. Metal Tops Furnished if Desired.

Notice Sliding Sleeve Damper. (Patented)

SITUATIONS WANTED.

Situation Wanted—By good all around tinner and furnace workman, up-to-date on job work, roofing and eave troughing. Strictly temperate. Nothing but steady job the year around. In town of one or two thousand inhabitants in northern Illinois. State wages. Address Tinner, Box 317, Monticello, Indiana. 10-3t

Situation Wanted—As clerk in retail or wholesale hardware store. Twenty years' experience. Fully understands the business in all its branches. Thirty-seven years of age, married. Please state salary in first letter. Address S-84, care THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 10-3t

A practical man who has had a wide experience in the sheet metal, heating and plumbing trades and who is competent to head a large business in these lines will soon be open for an engagement. Age 35. Sober and industrious. Address S-85, care THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 10-3t

Situation Wanted.—Young man thirty-five years of age, thoroughly posted in general hardware, open for position with jobber or manufacturer. Nine years' traveling experience. Best of references. Address S-86, care THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 10-3t

SPECIAL NOTICES.

WANTED

FOUR STOVE SALESMEN

Who can control business with a high grade Trade Mark line in following territories: Northern Indiana, Northern Illinois and Southern Wisconsin, Northern Iowa, Southern Minnesota We want only men who can earn $2,500, or better. Employment now or Nov. 1st. Give full particulars in confidence. Address W 35, care THE AMERICAN ARTISAN, 355 Dearborn Street Chicago. 6-8t.

WANTED.

Fifty steady and reliable plumbers and steamfitters at Aberdeen, South Dakota. Come and register for the great land drawing and earn good wages while you wait. Bring your tools. 12-3t.

WANTED

Experienced light agents to sell on commission; F. P. preferred; liberal commission and large territory; established business, well advertised; only salesmen with salesmanship ability need apply; give experience and reference, H. F. Strehlow, Casselton, North Dakota, general distributor for North Dakota, western Minnesota and eastern Montana. 12-ufn

SALESMAN WANTED

To sell specialty to Hardware and Gas Companies in Michigan, Indiana and Ohio, and in Eastern and Pacific Coast States. Commission job. Address K-D, care THE AMERICAN ARTISAN, 355 Dearborn Street, Chicago. 12-2t.

SALESMAN WANTED.

Wanted experienced stove salesman for well known line of ranges and heaters. State experience, territory and salary expected. We are looking for salesman who can deliver the goods. Position open Jan. 1st, 1910. All communications strictly confidential. Address W. 26, care THE AMERICAN ARTISAN, 355 Dearborn Street, Chicago, Ill. 1-ufn

FOR SALE.

A handsome and complete set of hardware fixtures in six sections, including glass display case, solid oak exposure, golden oak finish. Has 491 boxes and drawers with antique copper trimmings. A bargain. E. S. Taylor, 226 Wyandotte Street, Kansas City, Missouri. 12-1t.

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Adjourned Receiver's Sale of Real Estate and Personal Property of the Searchlight Manufacturing Company's Stove Plant at Mount Pleasant, Westmoreland County, Pennsylvania, on Saturday, October 2nd, 1909, at 2 o'clock P. M., consisting of about one acre of ground, having erected thereon a large frame building 100x244 feet in dimension, fully equipped with cupola for melting iron, machinery for finishing, nickel plating and japanning department and a large lot of stove patterns.

Is to be sold as a whole and subject to the lien of a mortgage in the sum of $12,000.00, with interest thereon.

Also personal property—consisting of a large lot of gas and coal stoves, iron castings, also 120 tons of pig iron.

Terms of sale made known on day of sale or upon inquiry. The right is reserved to reject any and all bids.

CITIZENS' SAVINGS & TRUST COMPANY, Receiver,
Searchlight Manufacturing Company.
12-2t

WANTED SALESMAN

with wholesale and retail trade established and experience, for Chicago and suburban trade only, on salary or commission basis, to devote his whole time to the sale of an old established line of goods. References required. Address P. O. Box 620, Collingswood, Camden Co., New Jersey. 8-ufn

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for all screw and flange connections. Makes thoroughly tight joints, but allows the joints to be unmade at any time without damage to tools or fittings. Write for free sample.

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The *Fuel Saver*

Automatic Heat Regulator

differs from all others because it has no batteries to renew—no springs to break—no clock work to run down and require winding up again.

Day and night it automatically regulates the drafts and saves its cost in fuel in one season's use.

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AND STOVE DEALERS' SUPPLIES

From "BRAUER'S"

Prices are Lowest Treatment is best

Shipments are Promptest

A. G. Brauer Supply Co.

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TO FIT ALL STOVES AND FURNACES

PROMPT SHIPMENTS ASK FOR ORDER BLANKS

U. S. STOVE REPAIR COMPANY

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Steam Kettles

Made from very thick metal, without Stay Bolts, joint packed in such a manner as to never need repacking. A little higher priced than some, but they are safe and tight.

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ASK YOUR JOBBER

GLOSS BLACK FOR STOVE PIPES AND ALL IRON WORK

ALUMINUM FOR RADIATORS PIPES, ETC.

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If you're not already familiar with their quality, it's time you were getting next. Write for samples and prices. Get particulars of our complete line of Ternes; also Bright Charcoals and Bright Cokes (including Furnace Pipe sizes).

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¶ We make the coating stick on our

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¶ Every sheet is EXTRA HEAVY COATED with exact uniformity on both sides.

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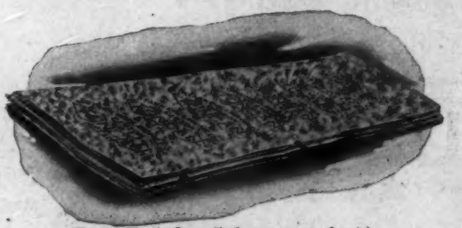

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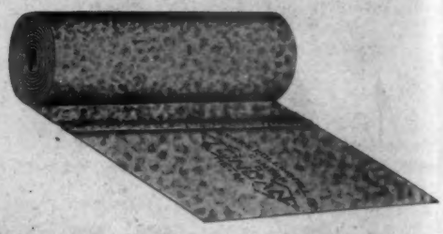

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Knobbling fires, hammers, bar mill and finishing mills at

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These sheets have been giving just such results for many years. For prime quality, uniformity, ease of application, long service and all-around superiority, use Apollo Best Bloom Galvanized Sheets, "Standard the World Over."
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Made with Metal and Glass Tops and with and without **Automatic** closing device.

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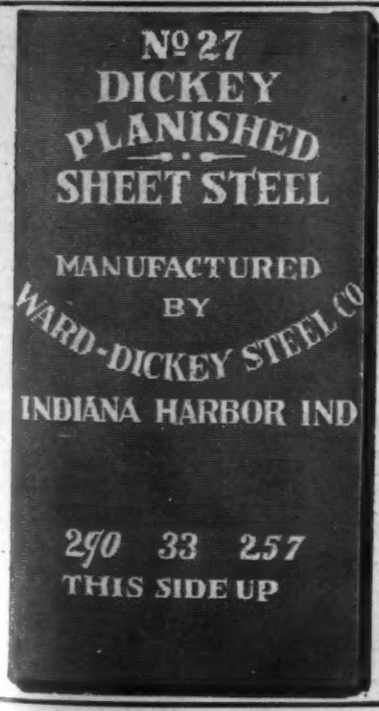
Cornice, Skylights, Metal Ceilings, Eaves Trough, Conductor Pipe, Etc.



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Iron mountings only or complete with cover and vane.

Double the sale and triple the efficiency of smoke stacks.

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Save Labor and Expense in Erecting.

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Guarantee F. Dieckmann Stamped in the Metal.

Galvanized Steel, Charcoal Iron, Copper, Ingot Iron, Toncan Metal, Terne, Brass, Zinc.

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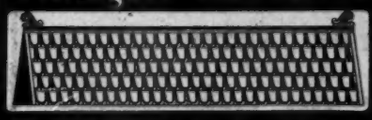
Shingles that last



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Detail Work a Specialty

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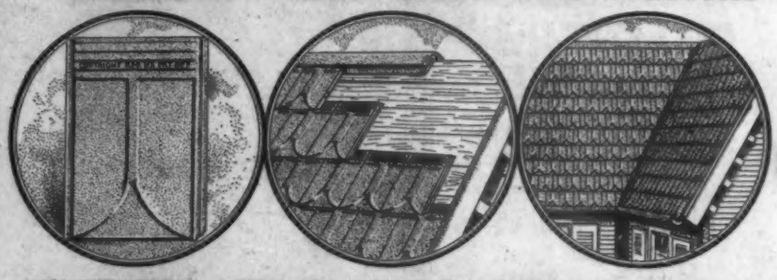

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Have you heard of the Cortright method of co-operation by which we assist tinners in getting business? How

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open new fields allowing you to compete for roofing churches, public schools, public buildings, fine residences—where now you can't buck against the slate, etc?

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THE CANTON ART METAL COMPANY

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MAKERS OF

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Cornice and Skylights
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The hottest soldering furnace on the market is the

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Not only is it the hottest but it is the only one that is correctly constructed. Every other furnace on the market today is a heat waster, due to the fact that instead of forcing both hot blasts from the outside to the center as the **Lundy** does they force both hot blasts from the center out;—naturally this means that one of these blasts is going to waste all the time the furnace is in operation. Write for descriptive matter of the LUNDY and learn more about its correct construction.

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This miter is made absolutely correct, true to shape, size and bead, and has the easiest connecting slip joint. Will save your time and temper. In case your supply house cannot furnish them, send your order direct to the

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You can close an end much quicker, neater and cheaper than in any other way. When you cut a trough, you can put an end in both parts, thus making no waste.

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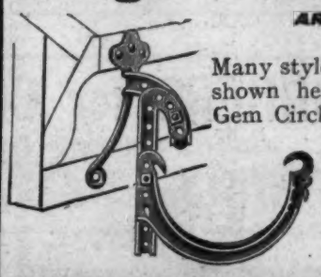
ARE THE STRONGEST, NEATEST AND HANDIEST MADE.



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Plecker's *Corrugated* Expanding *Conductors*

Have no Cross Seams. Made of Galvanized Iron in ten-foot lengths. Will not burst when full of ice.

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Soldering and Tinning Flux

It is anti-rusting, non-corrosive, non-poisonous and non-explosive, not affected by age, change of temperature, or exposure in open vessels. It is a perfect flux for GALVANIZED and ALL other metals. Shipped in tin cans, ready for use. On approval. Ask for booklet.

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Made entirely of STEEL

Punches ¼ in. hole in ¼ in. and equivalent

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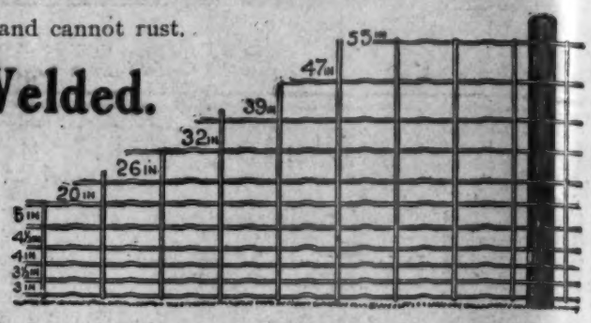
It has no wraps or clamps to hold moisture and cannot rust.

It is Electrically Welded.



It will curb the strongest beast.

It can be adjusted to uneven ground.

It has more selling points than any other fence.

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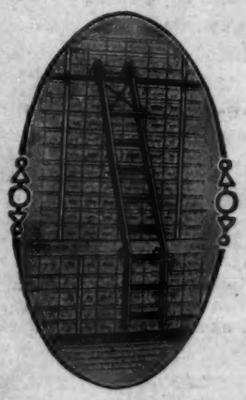

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ALWAYS PROVE HIGHLY SATISFACTORY

because they are made of the very best material that can be obtained, finished up in first-class style, and as there is nothing about them to give or wear out, or get out of order, will last indefinitely.

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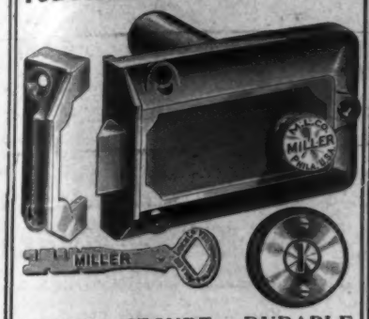
MILLER No. 3749

TUBULAR NIGHT LATCH



STRONG—SECURE—DURABLE

Has all the features of an expensive latch but the price, which is low.

A Big Latch for Little Money

Case, Iron, extra heavy. Bolt, Brass plated, reversible. Tube, Brass. Knob, Bronze. 2 Steel nickeled keys with each latch.

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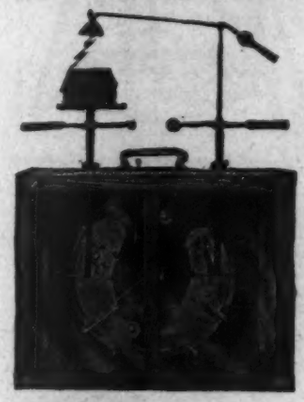
PHILADELPHIA, U. S. A.

Lightning Rods



We loan these machines to our customers without charge.

Absolutely Convincing.

We manufacture all kinds of Cable and Section Lightning Rods. Get Our Literature.

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Money is easy to make when you have the SOLE AGENCY of the QUEEN WASHER

It is different from the rest and easily the best

That's Why It Will Sell

Sold to Jobbers only for specified territory.

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OF EVERY DESCRIPTION AND FOR ALL PURPOSES

FOR SCREENS OF ALL KINDS

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We Have a Hardware Delivery Wagon that You Can Depend Upon

Body 20 inches from the ground, full width; regular height wheels, and yet will turn short.

Easy to Load and Unload

Durability guaranteed.

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The Store and Office. Bicycle Repairing.

DANIEL STERN,

PUBLISHER AND BOOKSELLER

355 Dearborn Street CHICAGO

LUFKIN

Measuring Tapes

are made in every conceivable variety, to suit every purse and purpose, but all of the same superior quality.

¶ Our extensive advertising creates a demand, that every progressive dealer should be able to satisfy.

¶ It takes but a minute and a postal to ask for our catalog—it's more than worth while.

Please Mention THE AMERICAN ARTISAN

THE LUFKIN RULE CO. Saginaw, Mich., U. S. A.

New York London, Eng. Windsor, Ont.

"Yankee Tools"

Are Without Equal in Quality or Efficiency in Practical Use

New Styles—Have You Seen Them?

MAGAZINE RATCHET SCREW DRIVER, NO. 65

RATCHET DRIVER with SCREW HOLDER NOS. 110-111-115

RATCHET "SCREW EYE" DRIVER, NOS. 80 and 81

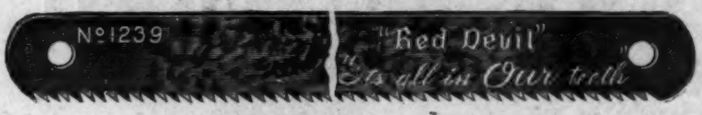
ASK YOUR JOBBER ABOUT THEM

Send for "Yankee" Tool Catalog.

North Bros. Mfg. Co., Philadelphia

"Red Devil" Hack Saw Blades

SPECIAL HIGH GRADE HAND BLADES



All Genuine Blades Stamped
"RED DEVIL."
None Genuine Unless so Stamped.

Your Jobber or

SMITH & HEMENWAY CO., 108 Duane St., NEW YORK CITY

DELTA FILES

The Highest Grade File Made.

The File You Will Eventually Use.

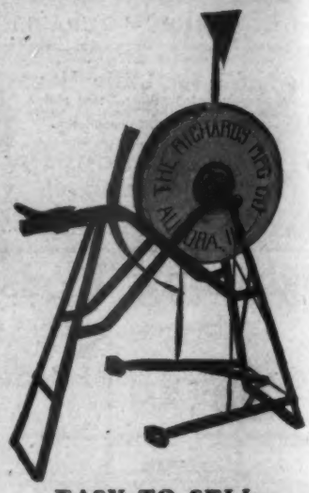
TRADE MARK DELTA

DELTA FILE WORKS
CARVER FILE CO.
PHILADELPHIA, PA.

An independent organization not connected with the trust in any form, shape or manner.

FILES OF QUALITY

Richards Cycle Ball-Bearing Steel Frame Grindstone



EASY TO SELL

Built on up-to-date mechanical principles. Stone guaranteed best quality Berea grit for general grinding. The frame is the strongest and most rigid on the market on account of its peculiar construction.

Made by

The Richards Manufacturing Co.

Aurora, Illinois

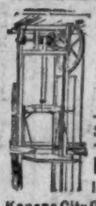
Empire Door Holder

Improved

50 per cent greater pressure on the floor than any other. Easy to apply. Easy to operate.

CALDWELL MFG. CO.
41 Jones St.,
Rochester, New York

ELEVATORS



Improved, Quick and Easy Rising. Steam, Electric and Hand Power.

SEND FOR CIRCULAR

KIMBALL BROS. CO.
1031 Ninth St., COUNCIL BLUFFS, IOWA
Kansas City Office, Water Works Bldg., Kansas City, Mo.

It's an "Enterprise"

Say this and the sale is made.

No explanations, no apologies needed.

All experienced housekeepers know the "Enterprise."

We are educating all the inexperienced ones to ask for

"ENTERPRISE" Food Choppers

All you need for big sales is a big stock. Our great campaign of advertising in magazines and agricultural publications featuring our Meat and Food Choppers, etc. will help you. "Enterprise" signs and a lot of advertising attractive to housekeepers and home makers, free to dealers upon request.

Have you our catalog handy?

The Enterprise Manufacturing Co. of Pennsylvania

21 Murray Street, New York — Philadelphia, U. S. A. — 438 Market Street, San Francisco

"BAILEY" ADJUSTABLE IRON PLANES

Note the Following Points of Superiority in Design:

The Cutter supported on the iron Frog clear down to the heel of the bevel and very close to the cutting edge.

The front support directly at the rear of the Mouth.

The deep rear support greatly strengthening the sides and bottom of the Plane and preventing any possibility of the Plane being drawn out of true when face of Frog is screwed up solid.

The Frog screws located between the two supports correctly distributing the pressure between them.

In effect the Plane is one solid piece from Cap to Bottom, while at the same time the Frog is adjustable.

Write for Catalogue.

THE STANLEY RULE & LEVEL CO.

NEW BRITAIN, CONN., U. S. A.

DISSTON

SAWS, TOOLS AND FILES

MADE SOLD USED **ON MERIT**

AND THE CONFIDENCE PLACED IN THE QUALITY AND EFFICIENCY OF THE **DISSTON BRAND** SHALL BE AS WELL-DESERVED IN THE FUTURE AS IT HAS BEEN DURING THE PAST

SIXTY-NINE YEARS

HENRY DISSTON & SONS, Inc.

KEYSTONE SAW, TOOL, STEEL AND FILE WORKS.

PHILADELPHIA, PA.

Wheeling Corrugating Company

It is the Dealer who by word and action suggests his customers' needs—not the one who waits until his patrons ask for seasonable goods—that gets and holds the trade.

The Wheeling Coal Hods for 1909-1910 are now ready for shipment, and the prices are right. Let us have your orders.

WHEELING CORRUGATING CO.
Wheeling, W. Va.

BRANCH OFFICES AND WAREHOUSES:

Chicago, Ill. St. Louis, Mo. Chattanooga, Tenn. Philadelphia, Pa.
New York City. Boston, Mass.

Our New No. 5

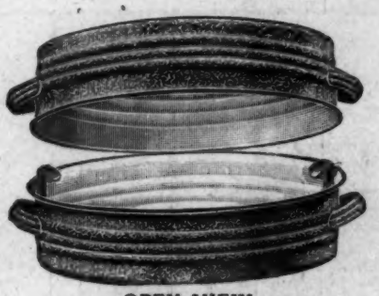
Self Basting Roaster

Made in Four Enamels

GRAY
Agate-Nickel-Steel
El-An-Ge

WHITE-LINED
Robin-Egg Blue
Turquoise

Also in Black Steel Lacquered



OPEN VIEW

One of the best and most serviceable articles we manufacture.

CLOSED VIEW

LALANCE & GROSJEAN MFG. CO.

NEW YORK CHICAGO BOSTON

"Atlantic"

Pails Pails Pails

¶ Manufacturing and selling as we are more high grade tin and galvanized pails than any other concern in the United States, enables us not only to compete, but to secure the business when quality is considered.

Send for Catalogue and Price List to-day

Atlantic Stamping Company

ROCHESTER, NEW YORK

"Largest Manufacturers of High Grade Pails in the U. S."

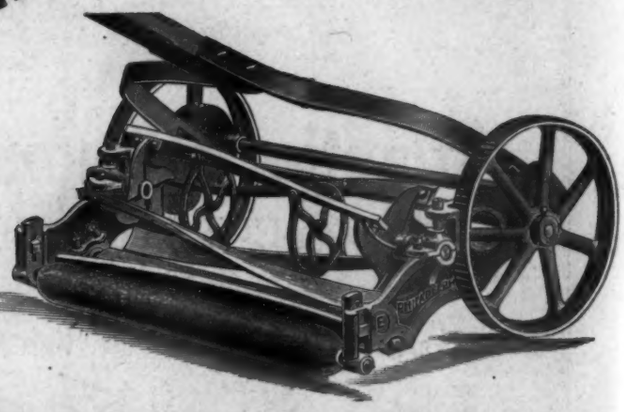
Forty Years' Popularity Plus

Throughout the United States, Mexico and Canada, Europe, Asia, Australia and South Africa—due to sturdy and easy running qualities—and a large line to choose from: 17 styles of hand and 5 styles horse mowers, lawn sprinklers, sweepers, etc., make the

LARGEST MAKERS OF HIGH GRADE LAWN MOWERS IN THE WORLD

Genuine Philadelphia Lawn Mowers

LARGEST MAKERS OF HIGH GRADE LAWN MOWERS IN THE WORLD



The most desirable to handle.

Profits—just send for our big catalog and discount sheet.

We have a brand new proposition for dealers handling the Genuine Philadelphia Mowers.

Before placing your orders for the coming season, consult us. Write today.

The Philadelphia Lawn Mower Co.

3101-3109 Chestnut St., Philadelphia, U. S. A.

KEEN KUTTER TOOLS

AT THE

NORTH POLE

COMMANDER PEARY,

IN OUTFITTING FOR HIS DASH TO THE NORTH POLE SELECTED

KEEN KUTTER

TOOLS IN PREFERENCE TO ALL OTHERS BECAUSE OF THEIR PERFECT TEMPER AND ABSOLUTE RELIABILITY.

Simmons Hardware Company

(INCORPORATED)

MANUFACTURERS and DISTRIBUTERS

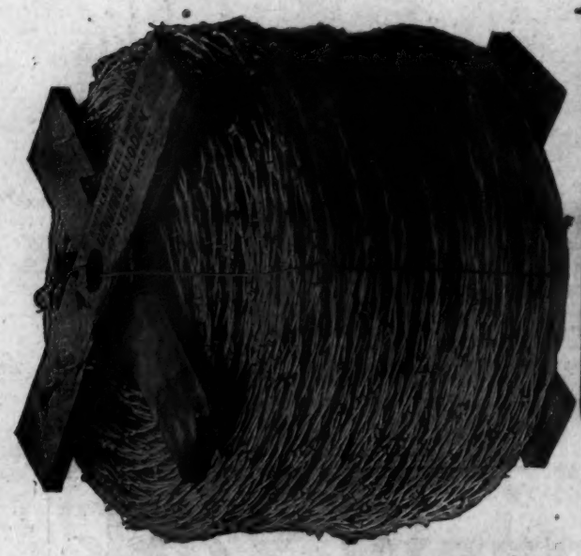
St. Louis New York

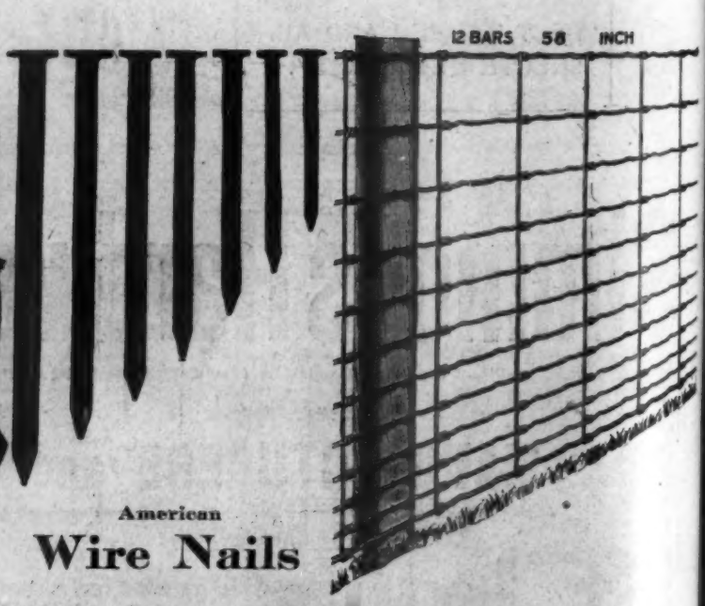
American Steel & Wire Co.

Chicago New York Denver San Francisco

American Wire Rope

W. & M. Telephone Wire





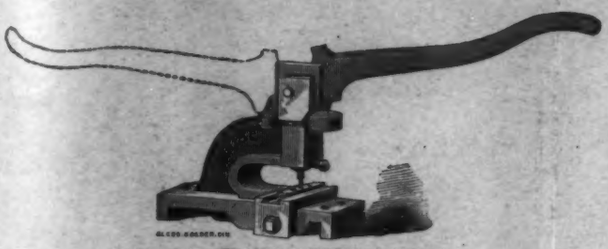
American

Wire Nails

And Wire of Every Description.

CORNICE BRAKE

No. 59. HAND LEVER SHEARS
Will cut No. 16 Gauge material, a swath of 3¼-inch.
Weight, 20 pounds.



No. 61. HAND LEVER PUNCH
Will punch $\frac{5}{16}$-inch holes in ⅛-inch iron.

The J. M. Robinson Mfg. Co.
3282 to 3288 Spring Grove Avenue
CINCINNATI, O., U.S.A.

Dealers! This Is For You!

A new book, just published, which should have a place in every store:

THE AMERICAN ARTISAN ADVERTISING MANUAL

This is a book worth many times its original cost to any dealer who advertises. In its 278 pages there are exactly 228 illustrations of advertisements that have actually been inserted by dealers all over the country in their local papers.

The advertisements are all comprehensively criticised—their weaknesses indicated—their strong features favorably commented on to the end that any dealer by applying the countless hints and suggestions to his own copy can greatly increase the effectiveness of his advertisements.

If your advertisements are not producing the desired results, consult this book for the reason. It will not only give the reason, but show you how to avoid the mistakes you have been making.

Are your ads unattractive? The subject of "display" is given space throughout the book.

Is there any question concerning your advertising upon which you would like expert opinion? THE AMERICAN ARTISAN ADVERTISING MANUAL will supply it.

It is an ever-ready reference book and no enterprisin dealer should be without it.

The book is elegantly gotten up in a durable manner d is cloth bound.

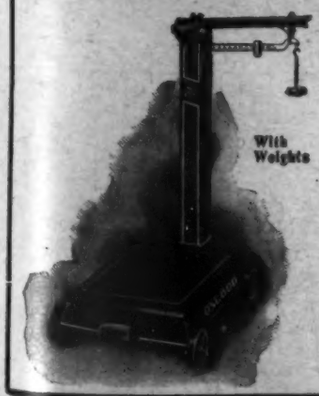
The price is $3.50 per copy. For sale by your book seller
OR BY

DANIEL STERN, PUBLISHER,

355 Dearborn Street Chicago, Illinois.

OSGOOD SCALE CO.

Binghamton, N. Y.



With Weights

U. S. Standard

ALL KINDS

For Sale by all First Class Jobbers.

Without Weights

OLD STYLE REGISTERED TRADE MARK N.&G.TAYLOR CO PHILADELPHIA

"Would have outlasted the timber frame."

We often hear of "TARGET AND ARROW" tin roofs found in excellent condition, in tearing down or altering old buildings. A firm of architects at Vancouver, B. C., wrote us June 3, 1909:

"We recently pulled down a 2-story frame building with a flat roof, which we built about twenty years ago, to make room for a six-story building, and we found your IC TARGET AND ARROW tin to be in excellent condition—in fact we think the roof would have outlasted the timber frame."

The good quality of former years is still furnished in the "TARGET AND ARROW" brand.

N. & G. TAYLOR COMPANY

The Old Philadelphia Tin Plate House

PHILADELPHIA

Established 1810 — One Hundredth Year

NAILS THAT NEVER RUST

KEYSTONE BRAND GALVANIZED NAILS

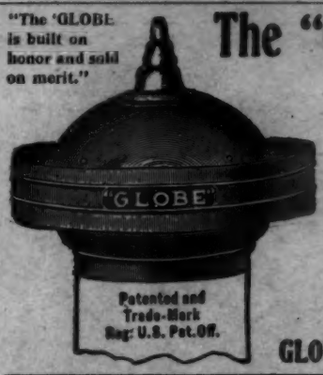
CUT OR WIRE

Evenly Coated — Perfectly Separated

KEYSTONE NAIL CO., Pittsburgh, Pa.

Send for Catalogue and Prices.

"The 'GLOBE' is built on honor and sold on merit."



The "GLOBE" Ventilato

in COPPER, GALVANIZED IRO and with Glass Tops for Sky-light purposes.

ABSOLUTELY STORM PROOF

For Perfectly Ventilating Schools, Churches, Halls, Mills, Factory and Audience Rooms of Every Character

SMOKY CHIMNEYS CURED

"GLOBE VENTILATED RIDGING"

Send for Pamphlet

MANUFACTURED BY

GLOBE VENTILATOR CO., Troy, N.

A HANDSOME PROFIT

can be made on every item of our justly celebrated

Enameled Ware, Tin Ware, Japanned Ware and **Galvanized Ware**

This **Water Pail** is only one of our line of many salable goods consisting in all of

OVER 500 FAST SELLING ITEMS

Star ★ Enameling & Stamping Co., PITTSBURGH, PA

Drink Pure Water

The **No. 50 Star Pump** shown here will positively purify the water in any well or cistern in short time.

This purifying feature alone makes it the only pump fit to put in any well where the water is used for household purposes, for it will surely save its cost in the doctor's bill many times over.

As it is made of No. 24 gauge galvanized iron it is a very substantial and handsome outfit, and will last for years.

Our line of purifying pumps is very complete. So is our line of Galvanized Chain Pump Cups and Tubing.

Ask your jobber for Star Pumps.

Star Bucket Pump Company

ST. LOUIS, MO.

---

100 Tinners' Patterns Complete for . . **$1.00** Sent postpaid on receipt of price. **DANIEL STER**

355 Dearborn St., Chicago, Ill

CONSTANT CARE and attention to every detail of manufacture, which is carried on according to the Old Welsh Hammered Open Hearth Process accounts for the excellent wearing quality of

Scott's Extra Coated ROOFING TIN

Made by

Follansbee Brothers Co.

PITTSBURGH

Sheet Metal Workers' Supplies

of every description kept in stock for prompt shipment.

ASK FOR CATALOGUE.

TRADE MARK SCOTT'S IC EXTRA COATED REGISTERED HAMMERED OPEN HEARTH

SNAP HOSE COUPLING

SAVES TIME, HOSE AND TEMPER

Prevents kinking and makes a quick and easy connection. Absolutely the best hose coupling on the market. Three years success behind it. Write for particulars.

STUBER & KUCK, Peoria, Il

YALE Russia finish, pat. Lock **STOVE PIPE**

It is made of a very high grade of uniform color Blue Polished Steel and iscoated to prevent rusting. Made in all sizes. Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States. Mfg. by **HEMP & CO.** 2nd and Chouteau Avenue, ST. LOUIS.

In the event your jobber does not handle this pipe, send your inquiries to us.

The "CENTENNIA

RAIN-WATER-CUT-OFF

The strongest, most durable and cheapest CUT-OFF on the market.

The only single cut-off made to fit Corrugated and plain pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers.

Manufactured only by

The Sullivan-Geiger Co.

19 & 21 E. South Street, Indianapolis